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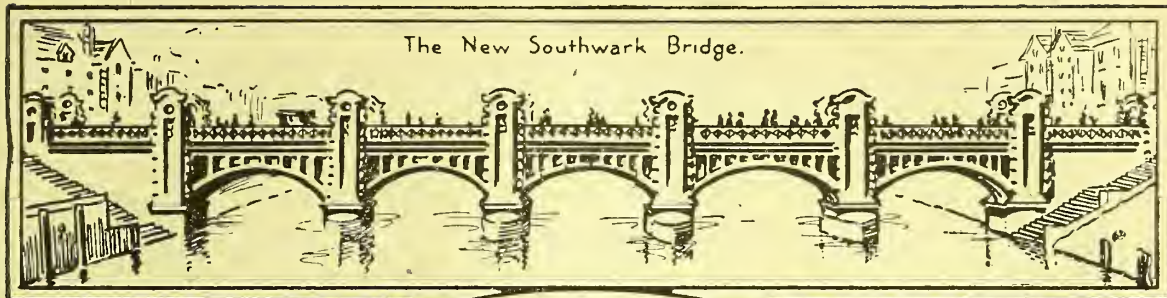
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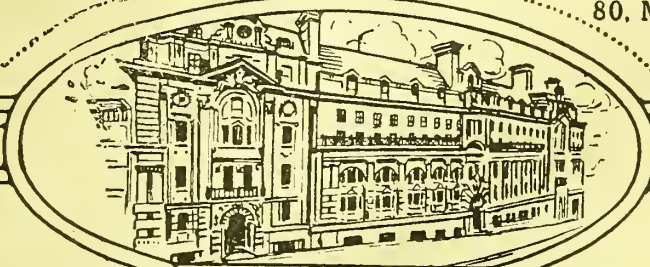
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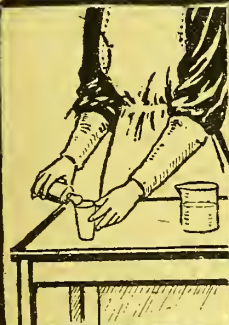
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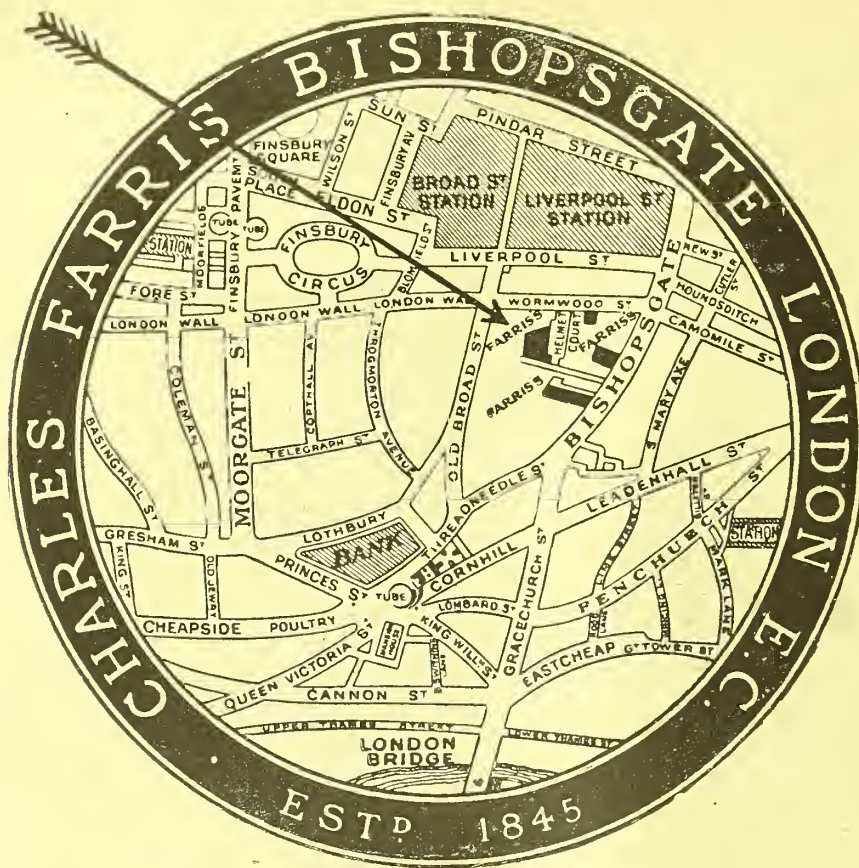
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Page.

NUMBER 306.

AUGUST 25, 1917.

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Apparently we did not make our meaning clear; for some pharmacists have written us to send them hundreds of these discs, while others have omitted to specify how many they require for each of our products.

We would therefore point out that it is only necessary for you to affix the discs to the actual stocks you have in hand at the present time; all further stocks that you order from us will be ready labelled with the disc.

We would also point out that the discs vary in size and wording according to the particular preparation and the particular size of the package for which each is intended. Thus the disc for a 9/6 Sanatozen differs from the disc for a 1/3 Albulactin and so forth.

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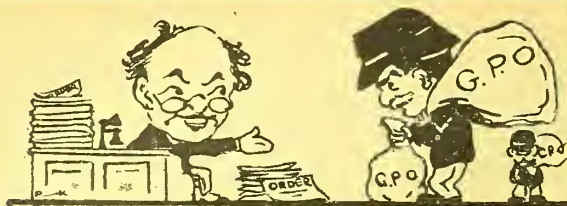
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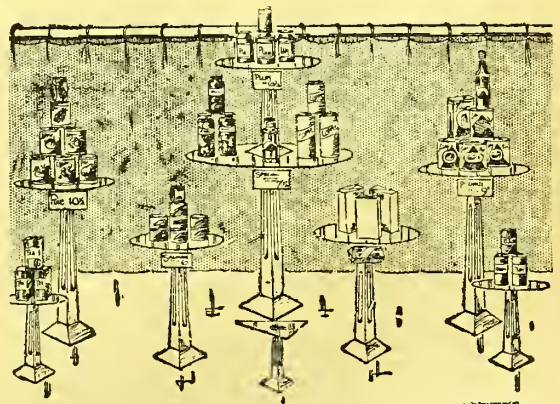
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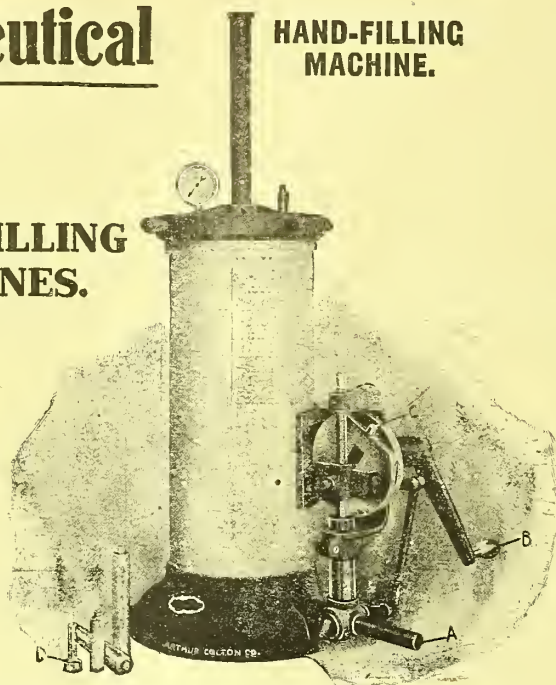
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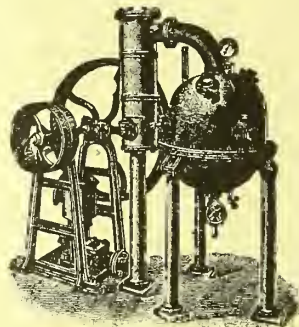
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GLENNVILLE GROVE, NEW CROSS,  
LONDON, S.E.

Telegrams: "Equifex Dept., London." Telephone: New Cross 770.



**STILLS, VACUUM STILLS, VACUUM PANS.  
EVAPORATING PANS.  
AUTOCLAVES AND DIGESTORS.  
SPECIAL APPARATUS AND PLANT  
FOR MANUFACTURING CHEMISTS.**

SOLE MAKERS of BENNETT'S PATENT 'IDEAL'  
ANNULAR FILM CONDENSERS.  
SHEARS' PATENT MULSER.

**BENNETT, SONS & SHEARS, LTD.**

ENGINEERS & COPPERSMITHS,

**43 & 44 Shoe Lane, LONDON, E.C. 4.**







## THE "MILNER" Straw Hat Cleaner

**SELLS WELL EVERYWHERE.**

IT IS EASILY USED, AND GIVES COMPLETE SATISFACTION.

Price 2d. a packet. Bonus of 6 packets given with each gross.

CHEMISTS' OPINIONS.

"It is really marvellous how this line sells."  
"My customers speak highly of it."

NOTE.—Please see the trade mark and name on each package.

### PRICE LIST.

3 dozen 4/-	...	2 gross 2½ %	...	13 to doz. for cash
6 dozen 7/-	...	5 gross 5 %	...	with order.
12 dozen 13/-	...	10 gross 7½ %	...	Carriage paid.

Showcards, Window Slips, &c., supplied with each order.

**Milner's Chemical Co., Liverpool**

**DECOLTENE**  
The liquid hair remover



*Dinkie*  
The Dainty Depilatory

The intelligent depilatory.  
Simple, safe and effective.  
Pleasant and harmless. In-  
valuable during the décolleté  
vogue. Daintily packed.

An attractive line that  
enjoys good sales. A grease-  
less Cream, that takes the  
odour out of perspiration.  
Daintily packed in opal jars.

Ask your wholesaler.

Both articles largely advertised.

**SATISFACTION GUARANTEED OR MONEY BACK.**

### TRADE TERMS.

DECOLTENE. Advertised and min. Retail price **3/9**

Trade 30/- per doz.

DINKIE. Advertised and min. Retail price **2/6**

Trade 20/- per doz.

5% cash with order.  
Carriage paid on £1 lots.  
Particulars on request.

**ROBARTES, LTD.,**

128 JERMYN STREET,

LONDON, S.W.1

Telephone - - Gerrard 3672.

# ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

**THE PHARMACEUTICAL LANOLINE CO.**

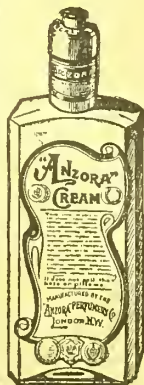
7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.

## The BIG Profit Margin

is only one of the many advantages accruing to the hairdresser who stocks "Anzora." This line has an established reputation: it is backed by an efficient British organisation: it has achieved wonderful popularity, and it is the only hair preparation which

effectually masters the hair, yet contains neither oil nor grease.



Anzora Cream or Anzora Viola (for dry scalps) should be amongst your leading lines. They are sure to please. Do not stock substitutes.

### TRADE TERMS:

11/6 per dozen.      Retail at 18/-  
19/6      "      "      " 30/-

Showcards on request.

**Anzora Perfumery Co.**

32/34 Willesden Lane,  
LONDON - N.W. 6.

**ANZORA**  
HAIR CREAM

## A Profitable Seller



THE  
"PORTIA"

(Regd.)

NET WEIGHT

**Baby Balance**

Weighs up to 15 lb.

Price	Retail
12/6	1/6
dozen.	each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

**SOLPORT BROS.,**

LIMITED,

184 to 190 Goswell Rd., London, E.C.

Obtainable through all Wholesale Houses.



# BRITISH NOW



Send for  
Price List and  
Trading Terms.

ODOL  
Chemical Works,  
BERKHAMSTED.

## LUCE'S *Jersey* EAU de COLOGNE

### ADVANCE in PRICES

	New Retail Prices.	New Trade Prices.
No. 27.—1 oz. ...	10½d. ...	8/- per doz.
„ 1.—2 oz. ...	1/9 ...	15/6 „
„ 3.—4 oz. ...	3/3 ...	30/- „
„ 5a.—8 oz. ...	6/6 ...	60/- „
„ 17.—½-pt. wk. ...	4/9 ...	45/- „
„ 18.—1 pt. ...	8/9 ...	84/- „

We shall continue our Window Show Terms on £5 orders (your own assortment) and upwards, thus assuring 50 per cent. profit on cost and 33½ per cent. on returns.

Send Orders to—

**J. C. GAMBLES & CO.**

*Sole Distributing Agents,*

46 FARRINGTON STREET, LONDON, E.C. 4

## 3 Cheap Lines !!!

### SOOTHERS.

Transparent Teat on Wood Stem.

(Sells at 2d.) **13/6 gross**

### Finest WHITE SOFT CORKS

(worth 1/- gross) in 6 gross bags for **5/6**  
Four sizes; separate bags (2 dr., 1 oz.,  
4 oz., 8 oz.)

### VALVES. Transparent.

**12/- gross**

Minimum quantities Soothers & Valves: One gross.

Corks ... 6 gross bags.

Carriage paid in U.K. only. Cash with order.

**THOMAS SWALES, Sundriesman**

24 Butts Court, and 89 Albion Street

**LEEDS.**

FOR LARGE BUYERS.

## Dental Creams

Bulk or Packed.

Also Vanishing Creams, Brilliantines,  
Toilet Paraffins, Lime Creams,  
Shaving Sticks, Tooth Powders,  
Shampoo Powders, and All  
Toilet Goods.

LOW PRICES for  
HIGH QUALITY.

**STOKES & CO., Ltd.**

Manufacturing Chemists and Perfumers,

31-35 Lower Castle, BRISTOL.

# TIN BRITISH MAKE FOIL

Highly polished foils—printed, lacquered, embossed or plain. Guaranteed free from lead for tobacco, cigarettes, food-stuffs, etc. In sheets or reels—large or small quantities

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes and other toilet preparations.

SHAVING STICK CASES.

SCREW-CAPS, ETC

**Venesta Ltd**  
1, GREAT TOWER ST.  
LONDON



## DR EVAN WILLIAMS'



A Business Vitalizer,  
something with  
Real Force behind it.

Apply for Descriptive Price List  
and Trade Terms.  
289, OXFORD ST LONDON, W.

## HENNA SHAMPOO

**F. M. RUDD,**  
Bronson,  
MICHIGAN,  
U.S.A.

### GENUINE AMERICAN PEPPERMINT OIL

"Columbia" Natural  
"Diamond White"  
Re-distilled.

Finest qualities for Druggists,  
Distillers and Confectioners.

Sole Consignees in United Kingdom—

R. W. GREEFF & CO.

Thames House,  
Queen St. Place, LONDON, E. C.

## ERNEST JACKSON & CO.

Manufacturing Chemists. LIMITED.

Specialists in—  
MEDICATED LOZENGES, PASTILLES, JUJUBES,  
COMPRESSED TABLETS, CAPSULES, PERLES,  
CACHOUS, BOILED GOODS, SALINES, &c. &c.

IMPORTERS OF LIQUORICE JUICE  
and makers of  
THE ORIGINAL cushion-shaped  
LIQUORICE & MENTHOL PELLETS.

WORKS & OFFICES: CREDITON, DEVON.

LONDON DEPOT: Plantain Place,  
Crosby Row,  
BOROUGH, S.E.  
Telephone: HOP 2668

TELEPHONE: CREDITON, No. 10.  
ELEGRAMS: "JACKSON-CREDITON."



# Important Notice!

## *ALTERATION of PRICES of EDWARDS' "ASTOL" & "CREMEX" SHAMPOO POWDERS.*

Edwards' Harlene, Limited, Proprietors of "Astol" and "Cremex" Shampoo Powders, beg to announce that as and from

**SEPTEMBER 1, 1917,**

the Retail Prices of these preparations to the public will be advanced as follows :

"Cremex"	1/-	size increased to	1/1 $\frac{1}{2}$
"Astol"	2/9	„ „	3/-
„	4/6	„ „	5/-

The exceptional increase in the cost of ingredients used in the manufacture, also bottles, labour, &c., necessitates this step being taken.

### NEW WHOLESALE TERMS:

"Cremex"	1/1 $\frac{1}{2}$	size	12/6	per dozen.
"Astol"	3/-	„	33/-	„ „
„	5/-	„	53/-	„ „

*Less 20 per cent. Discount.*

Members of the trade are also requested to note that the minimum selling prices to the public will be as under :

**1/-, 2/10 and 4/8** respectively.

## EDWARDS' "HARLENE," LTD.

20, 22, 24, 26 Lamb's Conduit St., London, W.C. 1.

# "LYSOL" EVANS



*"LYSOL" EVANS is made from POTASH and not from SODA.*

*"LYSOL" EVANS possesses high germicidal, deodorising and cleansing properties.*

*"LYSOL" EVANS is soluble in water in all proportions, and is therefore a standard article on which Pharmacists can depend.*

*In bottles, 4 oz., 8 oz., 16 oz., 32 oz.*

*In tins, ½ gallon and 1 gallon.*

**EVANS SONS LESCHER & WEBB LTD.**

60 Bartholomew Close, London, E.C. 56 Hanover Street, Liverpool.

## LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,  
Manufacturing Chemists

### HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins		7½d.	5/6
* " " " " " "		1/2	10/-
* " " " " " "	bottles in	1/6	12/-
	" cartons		

\*Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

### LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, } 13/6 per dozen  
especially suitable for use in Eczema } boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

## WINTER STOCK.



A necessary part of the modern equipment is a

GOOD RELIABLE

## VACUUM FLASK

We have a few cases left to dispose of.

BLACK JAPANNED  
& LEATHERETTE  
COVERED BODIES  
HANDSOMELY  
FINISHED  
NICKEL-PLATED  
CAPS AND BASES.

And we guarantee that every Flask will retain a satisfactory heat for twenty-four hours, if not we exchange free of charge.

**ARTHUR BERTON LTD.**

15/17 Worship Street, London, E.C.



**SAVE 3/- PER GALLON**  
BY BUYING

**GUARANTEED GENUINE**  
**NEWFOUNDLAND NON-FREEZING**  
**MEDICINAL COD LIVER OIL**  
**OF NEW SEASON'S MAKE.**

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

**WHOLESALE ONLY.**

*Kindly write for sample to*

**JOB BROS., Manufacturers, Tower Building, LIVERPOOL.**

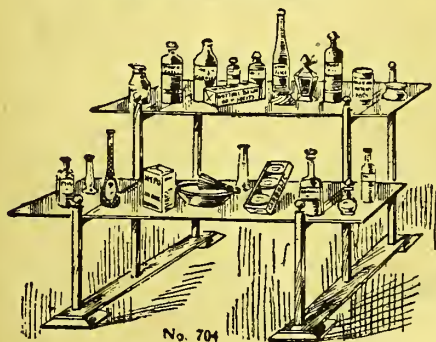
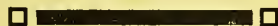
Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

**Let your window**  
**increase your business.**



Oak Display Stand, suitable for window or counter, with 2 glass shelves, 30" x 9", 32/6  
Also in Solid Brass ... 42/6  
Pedestals, Glass Shelves, and changeable signs in stock.

SEND FOR LEAFLETS.

**SAML. HASKINS & BROS., Ltd.**  
20/34 OLD ST., LONDON, E.C.1.

TELEPHONE -  
CITY  
65

TELEGRAMS -  
"FORSHAPCO."  
WESTCENT.  
LONDON.

**FORD,**  
**SHAPLAND**  
**& CO. LTD.**

**LABEL & GENERAL PRINTERS.**

*Fine Art Showcards · Cartons*  
*Envelopes for Shampoo Powders*  
*Corn Silk etc.*

*Dental & Optical*  
*Circulars.*

AGENTS FOR THE  
REGISTRATION OF  
TRADE MARKS.

**GT TURNSTILE,**  
**HIGH HOLBORN W.C.1.**

**WHEN YOU SEE THIS TRADE MARK ON A PACKAGE**

you know you are getting  
the ORIGINAL — GENUINE



## WINGED LION BRAND HERBS in PACKETS

These Packets have the largest sale in the  
United Kingdom by reason of their Purity  
and Reliable Contents.

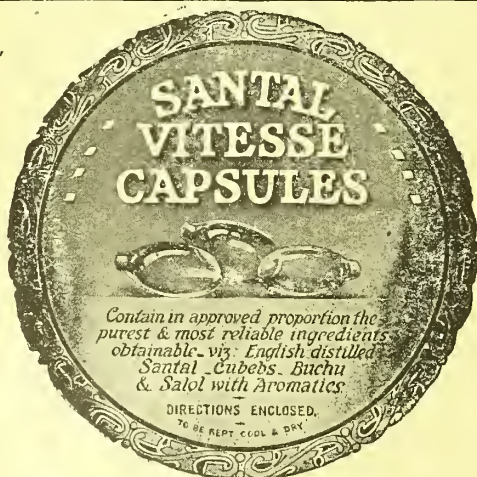
**POTTER & CLARKE, Ltd.,**

*Drug Merchants, Manufacturing Chemists,  
Importers of Herbs, Roots and Barks,*

**60, 62 & 64 ARTILLERY LANE,  
LONDON, E.**

And 24 LUNA ST., GT. ANCOATS, MANCHESTER.

Put up in  
 $\frac{1}{4}$ -gross  
cardboard  
cartons.  
7/6 per gross  
net.



We guarantee this combination to  
be one of the most genuine and  
reliable on the market. The ingre-  
dients stated upon the label are  
absolutely pure.

Boxes containing 24 .. 20/- doz.

" " 36 ... 30/- "

**POTTER & CLARKE, LTD.**

**60-64 ARTILLERY LANE, LONDON, E.**

And at 24 LUNA STREET, MANCHESTER.

MANUFACTURERS OF

## FLEXIBLE CAPSULES

We have recently installed new machinery for the  
manufacture of Capsules and Perles, and have now one  
of the most modern plants in the United Kingdom.

The "Winged Lion" Capsules do not shrink, con-  
tract or go mouldy, but retain their flexibility for any  
length of time.

All Capsules are filled with the purest ingredients  
and are guaranteed effective.

**SANTAL CAPSULES.**—We would specially  
direct your attention to the fact that we use the finest  
"English drawn Santal Wood Oil" only, guaranteed  
pure, in our Capsules.

CAPSULE LIST SENT ON RECEIPT OF BUSINESS CARD.



How  
to  
sell  
more



# 'Hazeline' Cream

(Trade Mark)

Assume that every lady who enters your pharmacy is a war worker in some capacity.

In most cases you will be right.

Every one is a likely buyer of 'HAZELINE' CREAM.

It is absolutely essential as a skin protector and beautifier, especially to those who work amidst the metallic grime and grit of the munition factory, to others who spend long days upon the land exposed to all weathers, and to those who are doing more work about the house than formerly.

Try the effect of placing 'HAZELINE' CREAM on your counter and of offering it to every lady customer—it will pay you.

*'Hazeline' Cream is supplied in collapsible metal tubes of two sizes, at 6/0 and 10/0 per dozen, respectively. Also in glass pots at 11/0 per dozen. Prices subject*



BURROUGHS WELLCOME & CO., LONDON

G 795

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**ENGLISH ASPIRIN ONLY.**

*Each tablet contains 5 grs. Aspirin B.P. of the well-known make of Messrs. Pierson, Morrell & Co.*

*Prompt delivery with name and address. A selection of 30 varieties of Labels.*

Referring to an Advertisement in the "C. & D." of June 9, we beg to state that our ASPIRIN TABLETS are "*absolutely free from Talc!*"

**H. & T. KIRBY & CO., LTD.** { Write—Belton Rd., Willesden Green, London, N.W. 2.  
Wire—Kirby, Limited, Willroad, London.  
Phone—Willesden 1412.

"Mr. Benger's admirable preparation."

"Benger's Food has by its excellence established a reputation of its own."

# FOOD FOR INFANTS

**BENGER'S**  
GOLD MEDAL AWARDED HEALTH EXHIBITION, LONDON.  
Wholesale of all Wholesale Houses and Shippers

Wholesale of all Wholesale Houses and Shippers  
or from the Manufacturers

**BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.**

Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beekman St., New York, U.S.A.  
Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal & Branches.  
ON THE P.A.T.A.

# INVALIDS AND THE AGED.

Z Z

Z PROTECTED Z	THAT IS THE <u>MINIMUM RETURN ON</u>	Z
<b>66<sup>2</sup>/<sub>3</sub>%</b>	<b>Zepto Pencils</b>	Z
Z PROFIT. Z		Z

Z Z

and you get a far higher remuneration if you can buy on Display Terms. Did you know that "Zepto Pencils" will not only sell you many a tooth brush, tooth powder, paste or any other Dental requisite, but it will give you the big P.A.T.A. profit as well. It is heavily advertised, too, on your behalf, and the "Tumbler idea" for counter or display cabinet helps sales immensely. Have you got it going?

Z Z

Z IF YOU SEND IN AT ONCE AN ORDER FOR 6 DOZEN ZEPTO Z PRICE PER CARTON Z  
Z YOU CAN HAVE, IN ADDITION TO OUR SPECIAL TERMS, A Z  
Z "TELEPHONE GIRL" WINDOW SHOW Z **4/6** Z  
Z WHILE THEY LAST. ORDERS SENT OUT IN ROTATION. Z  
Z CHRISTY'S, OLD SWAN LANE, LONDON, E.C. 4. Z OF ONE DOZEN. Z

Z Z





A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.  
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

#### SUBSCRIPTION RATES.

Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 1s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12s. 6d., franco.

Подписная цена на ежегодный журнал с приложением Годового Лесовника—12 шиллингов 6 пенсов на годъ съ пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus. Cannon, London." Telephone 3617 Central (three lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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"C. & D. DIARY," 1918.—Our annual *Diary*, which this year will be somewhat different in form, has, in consequence of war conditions, to go to press somewhat early, and the work of revision is already well advanced. We shall reserve space for the registration of formulæ for "known, admitted, and approved" remedies. Our *Diary* was the first book of the kind which the Revenue authorities accepted as an approved book of reference. The space reserved in the 1918 *Diary* for such formulæ will be limited, so that true copies of them, with doses or other directions for use, should be sent to the Editor *C. & D.*, 42 Cannon Street, London, E.C., as promptly as possible.

SCIENCE purifies common observation and teaches the nature and use of evidence. By science we learn something of the rules of the universe, and their control of the conditions under which human life exists.—*Nature*.

THE DAYS ARE GONE BY when successful manufacture could be carried on entirely by rule of thumb, trusting to the skill of some trained workman for the success of each delicate operation, when the hereditary instinct passed down from father to son was sufficient to produce each year practically the same results.—*Sir Richard Glazebrook*.

GERMAN INFAMY.—We have not thought it necessary to record all the evidence of German misconduct towards prisoners and others in their power. We have been interested chiefly to publish enough evidence to let the indifferent understand that the conduct by which German doctors in official positions have disgraced medicine is excoriated by the medical profession of this and all other civilized countries.—*British Medical Journal*.

## European War News.

### Import and Export Notices.

BRITISH HONDURAS.—The export duty on chicla has been increased from  $\frac{1}{2}$ c. to  $\frac{1}{4}$ c. per lb. (cent= $\frac{1}{2}$ d.).

FRANCE.—The exportation of acetyl cellulose is now prohibited from France except by special permission.

RUSSIA.—With reference to the notices which appeared in the *C. & D.*, August 11 (p. 33); respecting the prohibition of the importation of all goods into Russia except under licence issued by the competent authorities in Russia, the British Board of Trade are in receipt of a communication (published in the "Board of Trade Journal," August 16) from the Commission Internationale de Ravitaillement, from which it appears that Russian import licences will not be required in the case of goods shipped to Russia from the United Kingdom under permits by the Commission.

UNITED STATES.—In further reference to last week's paragraph under this heading, we give a full list of articles for which export licences are required, to which additions will be made as occasion requires: Fuel-oils, lubricating-oil, benzol, head-lantern oil, toluol, naphtha, benzine, and red oil; kerosine and gasoline, including bunkers; oil-cakes and oil-cake meal, malt, peanuts, cottonseed oil, corn oil, copra, desiccated coconut, linseed oil, lard, peanut oil and butter, rapeseed oil, tallow, tallow candles, stearic acid. Fertilisers: Sodium nitrate, potassium salts, potash cyanamide, phosphoric acid, phosphate rock, superphosphate, chloride of potash, bone meal, bone flour, ground bone, dried blood, ammonia and ammonia salts, acid phosphate, guano, humus, hardwood ashes, soot, and anhydrous ammonia; resin, sulphur, saltpetre, and turpentine.

### Superphosphates Controlled.

The Minister of Munitions, under the Defence of the Realm Regulations, has issued an Order fixing the maximum prices for superphosphates. All persons engaged in producing, manufacturing, selling, distributing, or storing superphosphates, or in any manufacture in which the same are used, are required to make such returns with regard to their businesses as may from time to time be required by or under the authority of the Minister of Munitions. It is pointed out that, for the purposes of the Order, superphosphate is intended to mean superphosphate of lime manufactured from mineral phosphate, but does not include basic superphosphate, bone superphosphate, dissolved bones, bone meal or bone compound, guano or compound manures.

### Personalia.

LIEUTENANT H. EARDLEY, R.N.A.S., only son of Mr. J. F. Eardley, Ph.C., Sheffield, is home on a month's sick leave through a fracture of the elbow.

MAJOR JAMES EWING, Deputy-Assistant-Director of Medical Services, whose promotion has just been announced, was, prior to qualifying for the medical profession, an assistant with S. Connor & Son, Newry.

SERGEANT PAUL WYNNE TIGHE, son of Mr. J. Wynne Tighe, chemist and druggist, Exeter, has been awarded the Military Medal. Sergeant Tighe joined the Forces at the outbreak of war, and is at present lying seriously wounded in France.

LIEUTENANT-COLONEL C. AVERILL, M.D., son of Mr. John Averill, J.P. (J. & H. A. Averill, pharmacists, Market Square, Stafford), has been promoted to the rank of brevet-colonel. He was Assistant-Director of Medical Services in Gallipoli, but was invalided home. At present he is the senior medical officer of a military camp.

PRIVATE TOM HEYS, Cheshire Regiment, who before the war was an assistant with Mr. F. Lawson, Ph.C., Amble-side, was wounded by shrapnel on August 4, and is in hospital in France. He writes: "For five days it rained constantly, and we were standing in water all the time—in many places over the knees in mud. They sent over some of their new gas shells, but we put on box respirators and didn't take much harm." This is the second time that Private Heys has been wounded.

SECOND-LIEUTENANT F. E. BEAUCHAMP, Middlesex Regiment, only son of Mr. F. C. Beauchamp, chemist and druggist, manager for Boots, Ltd., High Road, East Finchley, London, N., who has been in several engagements in Flanders, is reported as missing since July 31. Lieutenant Beauchamp joined the London Rifle Brigade in September 1914, gained his commission in August 1915, and after training in this country returned to France in June last.

SECOND-LIEUTENANT JOHN FRANK PRESTON, London Regiment, has been awarded the Military Cross for a deed of gallantry thus officially recorded: "He led his platoon twice to the attack of a position, which was finally captured together with eighty prisoners. His resolute leading



and courageous behaviour were of the highest assistance in bringing about a successful result." Second-Lieutenant Preston was assistant with Gilbert & Hall, chemists, Commercial Road, Bournemouth, till November 1915, when he joined the O.T.C.

It was announced in the "London Gazette," August 16, that a bar to the Military Cross has been awarded to Captain Frank Graham Lescher, M.C., R.A.M.C. Spec. Res., "for conspicuous gallantry and devotion to duty. He showed the greatest skill and fearlessness by leading his bearer-parties and establishing forward collecting posts under heavy hostile shell-fire. He worked ceaselessly for three days, by his personal example and devotion inspiring his men with courage under very difficult conditions." Captain Lescher is the younger son of Mr. F. Harwood Lescher, Ph.C., and brother of Mr. T. E. Lescher, director of Evans Sons Lescher & Webb, Ltd. He was educated at Stonyhurst College, Caius College, Cambridge, and St. Bartholomew's Hospital.

#### Miscellaneous.

**ENEMY PATENTS.**—A licence has been granted to Boot's Pure Drug Co., Ltd., to use the adalin patent, 2,888 of 1910, belonging to the Farbenfabriken vormals F. Bayer & Co. The North British Rubber Co., Ltd., have also been granted licences to use patents for vulcanising caoutchouc, 11,530 of 1913, 11,615 of 1913, 12,777 of 1913, and 12,661 of 1914, belonging to the same alien-enemy company. Boot's Pure Drug Co., Ltd., have also been granted the use of the adalin trade-mark (325,352).

**JAM STANDARDS.**—The Jam (Prices) Order fixes the wholesale and retail prices at which the various kinds of jam may be sold. The Order is interesting as fixing, for the first time, standards for jams. It is required that not more than 10 per cent. of any jam shall be added fruit-juice; that where more than one fruit is used the amount of neither shall be less than 25 per cent. of the total; and that the weight of the ingredients when dried shall be not less than 65 per cent. of the whole.

**TWO ARMY CLASSES.**—A further revision of the medical categories for recruits may be expected shortly, states "The Times." Men fit for military service will be classified under two heads only—those fit for service in the field, and those who, without any organic disease, are unfit for active campaigning. These may be classified as classes 1 and 2 of only one category, probably A. The second category may consist of men who, unfit for any form of military service, could still do war-work in connection with national service at home.

**BRITISH TRADE.**—An interesting official list has been compiled by the Custom House giving approximately the total volume of the overseas trading of the United Kingdom in 1913 compared with 1916. The figures are: Imports—1913, foodstuffs, 14 million tons; 1916, 15 million tons; raw materials and manufactured goods—1913, 44 million tons; 1916, 15 million tons; war material—1913, nil; 1916, 13 million tons, making a total of 58 million tons in 1913, against 45 million tons in 1916. Exports of U.K. produce and manufactures to all countries: 1913, 525 millions sterling; value in 1916 on 1913 price level, 386 millions sterling; exports of U.K. produce and manufactures to British Dominions: 1913, 205 millions sterling; value in 1916 on 1913 price level, 140 millions sterling; exports of U.K. produce and manufactures to present neutral countries: value in 1913, 132 millions sterling; value in 1916 on 1913 price level, 96 millions sterling. The figures are an eloquent testimony as to the manner in which the United Kingdom is maintaining her overseas commerce while fighting against military despotism.

**HORSE-CHESTNUT COLLECTION.**—The Board of Education (Victoria and Albert Museum, South Kensington, London, S.W. 7) has issued a circular to school authorities regarding the collection by school-children of the crop of horse chestnuts, which are required for munition-purposes. The chestnuts are to be freed from the outer green husks and sent to the local collecting-station. A limited number of sacks and baskets are available for the collection of the nuts, and where there is any difficulty in obtaining bags or baskets locally application should be made to the Director of Propellant Supplies, Ministry of Munitions, 32 Old Queen Street London, S.W. 1. When the collection is complete the local Committee should inform the Director of Propellant Supplies as above, stating the estimated quantity of the collection, and the Ministry of Munitions will arrange to remove the nuts and forward them to the factories in the course of the winter. A valuable saving of grain will be thus effected if the scheme is generally taken up. The crop of nuts on the trees is said to be a good one, and it is believed that over 200,000 tons may be collected. Except as a food for deer and goats, the seeds have in the past been practically a waste crop.

## Military Tribunals' Decisions.

SINCE OUR LAST ISSUE the following decisions have been notified:

**BEACONSFIELD.**—Mr. E. T. Roberts, chemist's assistant, has been granted three months' exemption pending the engagement of a substitute.

**BERMONDSEY.**—Three months' exemption was granted, on the application of Mr. Alfred George Collins, Clarehall Place, Southwark Park Road, London, S.E., to Mr. Albert Glaum, a retort-manager in the animal and vegetable charcoal industry. It was stated that the industry was not in the list of protected trades, as it was carried on by very few firms.

**CAMBRIDGE.**—Mr. Sidney Welsford Pain, of W. E. Pain & Sons, pharmacists, Sidney Street, has been exempted until called up.

**LEYTONSTONE.**—Exemption to December 31 has been granted to Mr. Frederick Edward Johnson, chemist and druggist, 542 High Road.

**MIDDLESEX.**—Six weeks' temporary exemption was granted, on the appeal of Mr. J. T. Davy, chemist and druggist, Fore Street, Upper Edmonton, London, N., to Mr. J. A. Edmondson, his assistant. It was stated that Mr. Davy had dispensed over 10,000 Insurance prescriptions this year.

**ROCHDALE.**—On the recommendation of the Advisory Committee, the Tribunal has granted exemption until December 31 to Mr. A. Goodhew, manufacturing chemist.

**ROMFORD.**—The appeal of the military authority against the exemption held by Mr. Horace W. Peart, assistant to Mr. W. S. Steeples, chemist and druggist, of Market Place, was allowed, and the calling-up suspended until September 30.

**ST. HELENS.**—Squire & Co., chemists and druggists, Bridge Street, appealed on behalf of Thomas A. Ashcroft, an apprentice. Mr. Macdonald, manager, stated that the appeal was put in so that the firm could claim for a substitute when their apprentice was called up. The Advisory Committee recommended that he should be given some time after the termination of his apprenticeship, to avoid future difficulty with the Pharmaceutical Society. The Insurance Committee only supported the appeal to September 30, or until a substitute was found. The applicant firm was directed to come to some arrangement with the military authority.

## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade Marks Journal," August 8, 1917.)

Statue of Tencer holding bow; for scientific instruments, etc. (8), and for perfumery, etc. (48). By S. F. Body, 167 High Street, Southend-on-Sea. 378,517/518.

"LATINA"; for artificial limbs, etc. (11). By A. Mari and E. Zafropulo, 10 Rue de Cadix, Paris. 376,516.

"AUTOCRAT," for trusses, etc. (11); "VARENECOSE," for elastic hosiery (11). By Le Brasseur Surgical Manufacturing Co., Ltd., 90 Worcester Street, Birmingham. 378,296/589.

"SHAMPOIA"; for toilet-preparations (48). By E. W. Keen and C. Rose, 13 Bridge Lane, London, W. 1. 378,478.

"AMMOIAY"; for perfumery, etc. (48). By Price's Patent Candle Co., Ltd., 31 Threadneedle Street, E.C. 2. 378,811.

(From "The Trade-marks Journal," August 15, 1917.)

Device formed of letters "ODIER"; for all goods (3). By R. A. Odier, 8 Rue Evnard, Geneva. 375,583.

ORIENTAL "KITO" BRAND; for all goods (3). By H. Leclerc and B. Maréchal, 1 Bloomsbury Court, High Holborn, W.C. 1. 378,482.

Device including seal bearing man's head and words "SRE-MAT PREPARATIONS" (seal device disclaimed); for medicines (3). By S. Matthews & Co., Ltd., 19-21 Farringdon Street, E.C. 376,862. Picture of statue of man; for knives, etc. (12), waterproofed fabrics (27), and for india-rubber and gutta-percha goods (40). By S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1. 378,459/60/62. (Associated.)

"SORBO" TRADE-MARK; for india-rubber sponge substitutes (40). By Leeson Sponge and Rubber Co., Ltd., New Enterprise Works, Chiswick, W. 4. 378,698.

"JENNER"; for infants' and invalids' food (42). By The Jenner Food Co., Ltd., 69A Wharf Street, Dukinfield, Cheshire. 377,778.

"METIE" in facsimile handwriting; for perfumery, etc. (48). By Violet M. McAuliffe, 6 Elmhurst Mansions, Clapham, S.W. 4. 378,428.

Conventional label design with words "A.D. 1914-1917 BRITISH EAU DE COLOGNE DE LUXE" ("De Luxe" disclaimed); for Eau de Cologne (48). By C. W. Johnson & Co., 38 Great Ormond Street, W.C. 1. 378,329.



## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### Conserving Supplies of Strawboard.

The Council of the Proprietary Articles Trade Association last month interviewed Sir Henry Birchenough, of the Paper Commission, regarding the use of wrapping-papers and cardboard containers. The delegates—Mr. Page Woodcock (Page Woodcock, Ltd.) and Mr. A. T. Webb (May, Roberts & Co., Ltd.)—produced specimens of cartons and outers used in packing proprietary goods of various kinds, and agreed with the Commissioners' representations that many of these are not absolutely essential during a time when the importation of strawboard is carried on under great difficulties. The delegates pointed out that in some instances it would be extremely inadvisable to do away with the protective cartons, as in the case of poisonous substances liable to fracture or liable to come out of unprotected tins or other containers. The Commissioners strongly urged the use of corrugated-paper and brown-paper wrappings whenever possible instead of cardboard, and the delegates agreed with their suggestions. Representatives from various other industries, such as soap-making and drapery, had promised that advice would be given to those issuing strawboard boxes employed in these trades to restrict their use as much as possible. The Commissioners stated that, unless there is at an early date a great decrease in the amount of strawboard used, the Government will be obliged, in the interest of food-supply and other urgent necessities, to cut off the overseas supply of cardboard altogether. Brown paper is being manufactured in this country, and therefore should be used in preference to strawboard. The Council of the Proprietary Articles Trade Association has accordingly sent out to the manufacturing and wholesale members an appeal asking them to comply loyally with the Commissioners' requests. It is desired that the saving should commence at once, and for special administrative reasons it is recommended that existing stocks of strawboard be kept back until the end of the war.

### Paper Restrictions Relaxed.

The general licence was issued on August 20 granting permission to those interested to despatch tradesmen's catalogues and price-lists and advertising circulars, between specified dates and with certain necessary restrictions, without the special request demanded in the original Order. The following is the text of the general licence:

"(1) Licence is hereby granted to all persons to issue and despatch tradesmen's catalogues and price-lists and all classes of advertising circulars, other than those mentioned in paragraph 4 hereof, between the date of this licence and January 31, 1918, to the extent of one-third of the weight of paper used for the tradesmen's catalogues and price-lists and advertising circulars issued by them between August 1, 1916, and January 31, 1917.

(2) Tradesmen's catalogues or price-lists or advertising circulars dispatched by any person in response to a request in writing, as permitted by paragraph 3 of the Paper Restriction Order, 1917, must be reckoned as part of the total weight of paper that is allowed to be issued and dispatched under this licence.

(3) For the purpose of this licence the expression 'advertising circulars' includes any advertising sheet or periodical in the form of a newspaper or magazine, whether registered as a newspaper or not, which is distributed gratuitously, and of which advertising is the main and not merely ancillary purpose; diaries, almanacks, and calendars issued gratuitously and containing advertising matter; but does not include circulars requesting the verification of information for books of reference. The expression 'paper' includes cardboard or other similar material or any substitute for paper.

(4) This licence does not extend to circulars issued by registered moneylenders, bookmakers, or commission agents for the making and placing of bets or wagers, persons offering to buy, sell, or deal in stock or shares (other than those issued by members of any recognised Stock Exchange to their own clients), or by promoters of, or persons interested in, any competition involving guessing or a test of skill.

(5) It is a condition of this licence that any person, availing himself of the permission hereby granted, shall allow any person authorised in that behalf by the Board of Trade, or by the Royal Commission on Paper, to inspect all books, invoices, accounts, or other documents in his possession relating to the printing, issuing, or dispatch by or for

him of tradesmen's catalogues and price-lists or advertising circulars during the period August 1, 1916, to January 31, 1917, and the period covered by this licence, and if any person refuses to grant such inspection, or wilfully conceals any book or document, he shall be deemed to have issued or dispatched such matter as aforesaid without a licence.

(6) The general licence issued on March 10, 1917, by the Royal Commission on Paper is hereby revoked."

### Government Contracts.

The following contracts were notified during July by the War Office, the India Office, and the Office of Works:

WAR OFFICE.—*Bottles, water, medical*.—Arnold & Sons. *Chemicals*.—London Chemical Works, Ltd. *Combs, hair*.—Aberdeen Comb Works Co., Ltd., A. Mitchell, J. Scholfield, J. A. Stevens & Son (Sheffield), Ltd. *Dental outfits*.—C. Ash, Sons & Co., Ltd., Dental Manufacturing Co., Ltd. *Disinfectants*.—Burt, Boulton & Haywood, Ltd., Heppell & Co., Jeyes' Sanitary Compounds Co., Ltd., Killgerm Co., Ltd., McDougall Bros., Ltd., Newton, Chambers & Co., Ltd., Phoenix Sanitary Co., Quibell Bros., Ltd., Reckitt & Sons, Ltd., Sanitas Co., Ltd., R. Young & Co., Ltd. *Flycatchers*.—W. Lauder & Sons, Lawrie & Bishop. *Medicines*.—British Drug Houses, Ltd., Brook, Parker & Co., Ltd., Brunner, Mond & Co., Ltd., Burgoyne, Burbidges & Co., Ltd., Burroughs Wellcome & Co., Duncan, Flockhart & Co., Howards & Sons, Ltd., Johnson & Sons (Manufacturing Chemists), Ltd., Menley & James, Ltd., Parke, Davis & Co., Pierson, Morell & Co., Standard Tablet and Pill Co., Wigglesworth, Ltd. *Methylated spirit*.—W. T. Alexander, Bristol Distilling Co., Ltd., J. Burrough, Ltd., Jones & Co., C. Orme & Co., Preston's Liverpool Distillery Co., Ltd., A. Vickers, Ltd. *Naphthalene*.—Abertillery Pitch and Benzol Co., Ltd. *Photographic stores*.—Imperial Dry Plate Co., Ltd., Kodak, Ltd., Kosmos Photographic, Ltd. *Soap*.—P. Lunt & Co., Price's Patent Candle Co., Ltd., Watson & Sons, Ltd. *Soda crystals*.—Brunner, Mond & Co., Ltd. *Sterilisers, etc.*—Allen & Hanburys, Ltd., Arnold & Sons, Fountayne Lamp and Engineering Co. (1910) Ltd., W. Parkinson & W. & B. Cowan, Rosebery Metal Works. *Surgical materials*.—Allen & Hanburys, Ltd., Arnold & Sons, A. Barton & Sons, Ltd., H. M. Blewett & Son, Burgoyne, Burbidges & Co., Ltd., J. Bury & Co., Ltd., Carnegie Bros., Cuxson, Gerrard & Co., Ltd., A. E. Evans, W. G. Fuller, Harvey & Co. (London), Ltd., J. L. Hatrick & Co., Ltd., Haywards, Ltd., B. Lees & Co., Ltd., H. Lewis, S. Maw, Son & Sons, Ltd., Mayer & Meltzer, J. H. Montague, Parke, Davis & Co., D. Paul, J. Rattray, E. Reed & Sons, C. Salmon & Sons, T. J. Smith & Nephew, Ltd., Southall Bros. & Barclay, Ltd., Swift & Goodinson, Tough Bros., S. & J. Tuckett, Tye & Sons, Vernon & Co., Ltd., Wantage Crutch Works, T. J. Weekes & Sons, Ltd.

INDIA OFFICE (STORE DEPARTMENT).—*Bismuth salicylate*.—T. Morson & Son, Ltd. *Dyes*.—British Dyes, Ltd., Levinstein, Ltd.

H.M. OFFICE OF WORKS.—*Soaps, etc.*—Crosfield & Sons, Ltd., Kay & Sons, John Knight, Ltd., Palmer & Co., Price's Patent Candle Co., Ltd. *Turpentine substitute*.—Major & Co., Ltd.

### Birminghams.

Coal-gas as a propellant for motors has been introduced locally with success.

A well-known pharmacist in south suburbia is effectively advertising his proprietaries by means of white letters on a blue window-blind.

"Food-supply" companies are being formed for the supply of chemical substitutes for articles used in the confectionery and bakers' trades.

Most of the scientific workers at the Birmingham University and Technical School are engaged just now on "work of national importance."

Rustless knife-blades for pharmaceutical and other uses, which are being made here, consist of mild carbon steel with a 10 to 12 per cent. alloy of chromium.

The "Birmingham Weekly Post" has a photograph of a kelp-dredger, designed to collect seaweed. This is wanted for its potash, and the supply would replace some of the Stassfurt potash-trade.

The numerous "experts" who give advice in weekly and other periodicals on medical topics still persist in including in their recipe ingredients, such as glycerin and syrup, that cannot be dispensed.

The "young bloods" of this city are evidently intent on finding out the manufacturing processes for such things as glycerin, ionone, and phenacetin. Parry's book at the Reference Library has of late assumed a well-thumbed appearance.

The latest list of newly passed apothecaries' assistants



(C. & D., August 13, p. 35) includes several local names. Birmingham has been called the home of the lady dispenser: it would be interesting to know the percentage of women in the three columns.

Mr. James Iliam, the Warwickshire naturalist, died on August 13, at the age of eighty. He was noted for his "tips" to the local Press on plants and plant-pests, and was instrumental in introducing effective remedies for dealing with the winter moth fruit-pest.

#### Liverpool.

There is good reason to hope that the supplies of sugar to chemists and druggists may soon be materially increased.

Specifics for skin-eruptions are on display in many pharmacies, and are much in demand. These troubles are popularly attributed to "war bread."

Mr. Arthur Williams, 50 Great Charlotte Street, Liverpool, has given notice of his intention to apply for a licence to sell poisonous substances for horticultural and agricultural use under the Poisons and Pharmacy Act, 1908.

Mr. Edmund Knowles Muspratt, LL.D., F.I.C., etc., Seaforth Hall, has undergone an operation and is progressing very favourably. Widespread sympathy and good wishes will go out to the octogenarian patient, who was for many years Pro-Chancellor of the University of Liverpool, and is the father of the present Lord Mayor.

#### Sheffield.

Mr. E. Preston, Ph.C., Secretary of the local Society, is taking a rest at Bridlington.

Dr. E. W. Adams, a member of the National Health Commission and of the Committee on Economy in Drugs, was formerly in practice at Ecclesall Road, Sheffield.

As the meeting announced for August 29 at the Grand Hotel commences half an hour before most of the suburban pharmacies are closed, the proceedings are to be quite informal. It is hoped as many chemists as possible will call in at the hotel during the evening.

Local pharmacists feel that the depletion in their ranks has not been realised by the public, who expect them to "carry on" as usual. In contra to, there is a tendency to waive unnecessary work on the part of the doctors. It is forgotten that pharmacy has given to the Forces as high a percentage of men, to say the least, as the medical profession.

#### Miscellaneous.

THE WELLCOME HISTORICAL MEDICAL MUSEUM will be closed for cleaning from September 1 to 30 inclusive.

CHARGE OF THEFT.—Four girls employed by Boots, Ltd., Nottingham, were remanded, on August 15, on a charge of extensive thefts of perfumes and other property during recent months.

UNEMPLOYMENT INSURANCE.—The Umpire has decided that contributions are payable in respect of workmen engaged wholly or mainly in the manufacture of metal instruments and appliances for the use of dentists.

POISON-LICENCE.—The Town Council of Richmond, Surrey, has granted a licence for the sale of agricultural and horticultural poisons to Miss Julia T. Hayden, manageress for Mr. Sydney Flowers, 67 Kew Road.

FIRE.—On August 17 a fire broke out on the premises of Fassett & Johnson, Ltd., 36 Clerkenwell Road, London, E.C. The staff were able to leave in safety, but the upper portion of the six-floored warehouse was severely damaged.

ASSISTANT'S DEATH IN A BATH.—An open verdict was returned at an inquest at Islington, on August 16, in the case of John Podbury (60), Ronalds Road, Highbury, London, N., described as a chemist's assistant, who was found dead in a bath at the Caledonian Road Public Baths.

GIFT OF A PARK.—A bequest from the late Mr. G. V. Ball, a local chemist, for the provision of a public park at Banbury has been supplemented by a contribution of 1,600*l.* from a syndicate of townspeople, completing the purchase price of 5,000*l.*

METRIC SYSTEM IN MEDICINE.—At the annual meeting of the British Medical Association, held last month, a resolution was passed that "The general use of the metric system in the teaching of dispensing, prescribing, and treatment would be beneficial to the scientific interests of the medical profession."

A RESEARCH FUND in connection with the Bland-Sutton Institute of Pathology has been opened at the Middlesex Hospital, and will be associated with the name of the late Mr. F. Clare Melhado, the Secretary, who initiated the scheme. Mr. Edmund Davis has given 1,650*l.*, and Sir John and Lady Bland-Sutton 1,000*l.* to the fund.

"KEW BULLETIN."—This official journal of the Royal Botanic Gardens, Kew, has resumed publication after

having been discontinued for some months. One of the articles, dealing with the labelling of trees at Kew, states that cards coated with celluloid-varnish answer well for outdoor use. The varnish is a solution of celluloid (1 oz.) in amyl acetate ( $\frac{1}{2}$  lb.).

MATCHES IN A MUNITION-FACTORY.—Arthur Althorp, chemist and druggist, 2 Northern Avenue, Morecambe, was fined 10*l.* at a police court in the North of England for having matches in his possession in a high-explosives factory on August 13. It was stated that the defendant was engaged as a works' dispenser at a distance of 300 yards from the danger zone, and was not aware that he had left the matches in his pocket.

REGISTRATION OF BUSINESS NAMES.—In accordance with the Order of the Board of Trade made under Section 16 of the Registration of Business Names Act, 1916, the office of the Registrar of Business Names, 39 Russell Square, London, W.C. 1, will be open to the public for inspection of documents filed, and for the issue of certified copies of or extracts from such documents, between 10 A.M. and 4 P.M. (Saturdays 9.30 to 12.30) from Saturday, September 1.

L.G.B. REPORT.—The forty-sixth annual Report of the Local Government Board, which was published this week, deals with (1) the administration of the Poor-law; special work arising out of the war; (2) house and town planning; (3) Public Health; local administration; local taxation and valuation. The third part contains a reference to the action taken in regard to venereal diseases, which has been referred to from time to time in our columns.

TRADE COMMISSIONERS.—It is proposed to make several appointments as Trade Commissioners. The most important qualifications for these appointments are a good knowledge of import and export trade and commercial experience at home and abroad. Candidates should be under fifty years of age. Applications should be addressed in the first instance to the Secretary of the Civil Service Commission, London, W. 1, and will be considered for submission to the Selection Committee by which recommendations for appointment will be made to the President of the Board of Trade after interviews held in London.

POISONINGS.—The fatal cases of poisoning reported during the week include the following: Captain E. A. Elgee, who was found dead in his flat in Regent Street, London, was addicted to the morphine and cocaine habit, and the medical evidence was that death was caused by an overdose.—Dr. Frederic Mercer, formerly of Pendleton, committed suicide by poison at Bristol.—At Boroughbridge, Yorkshire, Robert Duffield drank a solution of cyanide of potassium in mistake for a beverage. The poison had been obtained for the purpose of destroying wasps' nests.—At Preston a girl clerk named Traynor died from the effects of drinking hydrochloric acid, which she took six months previously, after breaking off her engagement with a chemist named Joseph Noblett.

## Irish News.

#### Brevities.

Mr. Walter Thorpe has been appointed analyst to the Wexford Board of Guardians.

Mr. J. Burke, Ph.C., and Mr. Arthur Mayne, Ph.C., Cork, gave prizes to the Red Cross Tournament promoted by the Rushbrooke Lawn Tennis Committee.

Last week a fire occurred in the store-room off the Medical Hall of Dr. J. J. Walsh, Mallow, and quickly spread to the shop. The fire, which threatened to involve the neighbouring premises, was subdued in about an hour, the store-room, shop, and contents being destroyed. The damage is estimated at 1,000*l.*

#### Cork Closing Order.

Dr. W. J. Dunlea, solicitor, who appeared before the Cork Corporation on behalf of Coroner Wm. Murphy, solicitor, in connection with the recommendation of the Law and Finance Committee, passed by a vote of seven to two, that the necessary steps be taken to complete the register and ascertain the views of the occupiers of chemists' shops with regard to the making of a closing order. He asked that consideration of the matter be adjourned to the next meeting to enable Coroner Murphy to attend. Mr. Maurice B. O'Connor, solicitor to the Cork Branch of the Irish Chemists' Assistants' Association, who appeared in support of the closing order, objected to the adjournment. It was agreed to take no action until Coroner Murphy attended, except to commence the preparation of the register.



## Scottish News.

### Brevities.

Davidson & Gray, 128A Nethergate, Dundee, will close on August 29 for stocktaking.

An employé of a Glasgow professor, who was burning bracken in order to ascertain the yield, was fined under the Defence of the Realm Act for failing to extinguish his fire at night. (See *C. & D.*, August 18, p. 36.)

There is likely to be a shortage of honey this season and consequent high prices. The lay Press alleges that the scarcity is due to so much vegetable cultivation to the neglect of flowers; but bee-keepers do not agree with this statement, as bees depend for their supplies on fruit blossom and wild flowers more than on garden flowers.

Sir Watson Cheyne, the newly elected member for Edinburgh and St. Andrews Universities, made an excellent impression in the House of Commons last week in his maiden speech (*C. & D.*, August 18, p. 39). It is not often that a new member finds an opportunity so quickly of addressing the House on a subject in which he is a specialist.

### Private Arrangement.

A meeting of the creditors of Mr. John Edwin Black, chemist and druggist, 365 Holmlea Road, Cathcart, Glasgow, was held in Glasgow on August 15. Mr. Hatrick, of W. & H. Hatrick, in the chair. The statement of affairs showed liabilities amounting to 1,846*l.* 16*s.* 2*d.*, and assets estimated to produce 712*l.* 4*s.* 3*d.*, after allowing for the claims of the preferential creditors, the estate disclosing a deficiency of 1,134*l.* 11*s.* 11*d.* It was reported that the debtor had been in business about fifteen years, having purchased the business for 800*l.*, moneys lent to him by his mother. No interest has been paid on that sum, nor has any part of the principal been repaid. It was decided that debtor should execute a trust-deed in favour of Mr. French, and that a Committee be appointed, consisting of Mr. Hatrick, Mr. Jamieson (representing Timpson & Co.), and Mr. Robertson. The debtor's mother was a cash creditor for 1,100*l.* odd, and it was thought that she might withdraw her claim. Among the creditors are the following: W. & H. Hatrick (252*l.*); Glasgow Apothecaries' Co. (90*l.*); Lorimer & Moyes (50*l.*); Harkness, Beaumont & Co. (22*l.*); United Drug Co. (57*l.*); John Timpson & Co. (48*l.*).

### Edinburgh.

The Edinburgh Red Cross Fund now amounts to 112,543*l.* "Black sugar" is being retailed at 11*d.* and 1*s.* per 4-oz. stick.

Locally, there is great scarcity of photographic material, chip boxes, and willowette boxes.

Mrs. Sarah C. Gibson, Westcliff-on-Sea, widow of Adam Gibson (Pinkerton, Gibson & Co., wholesale manufacturing chemists, Edinburgh), left 12,060*l.*

It is stated, with reference to the Production of Petroleum Bill, that the strata containing the productive oil shales of Midlothian extend westwards underneath the coalfields of the Clyde Valley.

There has of late been a great demand for acetic acid in small quantities. It is said that vinegar is almost unobtainable in grocers' shops, and that the manufacture of malt vinegar has ceased.

The Rev. George Jack, M.A., has been awarded the gold medal offered by the Scottish Horticultural Association for the best 1917 allotment. Mr. Jack introduced a proprietary article, "Helios," some time ago.

One wonders what some of the white-paper-and-sealing-wax chemists of a few years ago think when they use newspapers and magazine-pages for wrapping. Even in "good" localities this practice is growing.

### Glasgow.

The second of the bowling-matches arranged by the Glasgow Pharmacy Athletic Club took place on Queen's Park Green on August 7. Four rinks competed, and the following were the results:

Skips		Scores		Skips		Scores	
H. G. Gray	...	20	...	Geo. McDonald	...	13	...
A. G. Sutherland	...	23	...	C. B. Lee	...	18	...
J. T. Simpson	...	19	...	A. B. Paterson	...	19	...
H. P. Arthur	...	31	...	David Black	...	9	...

The winners of the prizes were therefore Mr. Arthur's rink, which consisted of Messrs. W. J. Moffat, F. W. Soddy, J. D. Sutherland, and H. P. Arthur (skip).

## Colonial and Foreign News.

OPTICAL INSTRUMENTS may now, according to an Austrian decree of June 20, be sold in that country only to persons of military status.

FRUIT-PRESERVATIVES.—By an Order of the Austrian Minister of the Interior benzoic acid and sodium benzoate may be used in preserving fruit and allied products of the 1917 harvest in proportions not exceeding 50 grams and 60 grams respectively per 100 kilos. of fruit preserve.

SURGICAL DRESSINGS.—Official formulæ for preparing sterilised dressings were discussed at a conference held at Budapest of German, Austrian, and Hungarian manufacturers, and it was decided to make strong representations to the respective Governments so as to secure uniformity.

METAL EXPROPRIATION in Austria has reached such a pitch that such things as fireguards, fenders, inkstands, flower-pots, window-fittings, trade signs, name-plates, bell-knobs, tombstone railings, and coat-hooks, if made of copper, brass, bronze, or other similar metal, have to be surrendered to the authorities for war purposes.

CODEX ALIMENTARIUS AUSTRIACUS.—The publication of this work, which began in 1908, is completed by the recent issue of its third volume, which deals with such diverse articles as ice, hops, molluscs, margarine, and tobacco. Supplements will appear from time to time to bring the work up to date: four of these are already available.

THE SPANISH ADMIRALTY requires three pharmacists for its Armada (it still retains that proud term for its navy). Applicants must be Spanish or naturalised, not over thirty-six, of good physique, enjoy full civil privileges, and be Licentiates or Doctors of Pharmacy of a State university. The salary offered is 2,500 pesetas, all found.

TOBACCO-SUBSTITUTES.—Dr. T. F. Hanaušek, writing in the "Neue Freie Presse" on tobacco-substitutes, recommends as quite harmless the leaves of *Tussilago farfara*, of the *Plantago* species, of *Fagus sylvatica*, and of *Juglans regia*. He warns his readers against the excessive use of leaves containing coumarin—*e.g.*, those of *Asperula odorata*—on account of its toxicity.

MISSOURI CONVENTION.—A Pharmaceutical Convention of Missouri Pharmaceutical Associations was held at Excelsior Springs this year. Dr. H. M. Whelpley, St. Louis, read a paper on "Pharmacists and the War," and also one regarding the meeting of the Missouri Pharmaceutical Association in 1892. He is one of three persons now living who attended that meeting.

MANGANESE DIOXIDE.—According to telegraphic information received at the office of the High Commissioner for Canada in London from the Ministry of the Interior at Ottawa, large deposits of manganese dioxide, which is extremely valuable as an iron-toughening material, have been found in the Cypress Hills, Alberta. Eight hundred thousand tons, valued at about \$54,400,000, has been blocked out.

SACCHARIN IN AUSTRIA.—From Vienna it is reported that the Unionbank, the saccharin-works of Fahlberg, List & Co. in Magdeburg, and the Austrian chemical-works of Rudolf Goldschmidt & Co. in Oderberg have come to an agreement with the Austrian Minister of Finance regarding the deliveries of saccharin to the Monopoly Administration of Sweetstuffs, and will erect the Oderberg Chemical-works in Vienna, with a capital of 4,000,000 kroner. For several years the shares will remain in the syndicate.

TRADE ADVERTISEMENTS.—A German decree, prohibiting the mention of prices in advertisements relating to medicaments, has been, after evoking protests from all sides, revoked by the Imperial Chancellor. It is still forbidden (a) to offer to purchase these goods without the permission of the authorities; (b) to advertise for offers to purchase; (c) to make incorrect declarations. A later decree prohibits the publication of recipes for food-substitutes.

SOAP-SUBSTITUTES.—Soap being unobtainable in Germany, all sorts of substitutes are on the market. These consist of earths, chalk, alkali carbonates, sodium sulphate, sodium silicate, bound together with gelatin or similar binding-material. A preservative, such as salicylic acid, is also required. The washing-powders contain sodium carbonate, potassium carbonate, ammonium chloride, clay, saponin, sodium perborate, sodium peroxide, and carbon tetrachloride. Some accidents have occurred in the use of powders containing the peroxides and perborates, so that a warning has been issued regarding their use by the public.



## Legal Reports.

**The Sale of Cocaine.**—At Barrow on August 17, John Bryden, chemist and druggist, Michaelson Road, and Thos. Steele, chemist and druggist, Duke Street, Barrow, were charged, under the Defence of the Realm Act, with supplying cocaine without entering in a proper register the names and addresses of the persons to whom the prescriptions containing the cocaine were supplied. The Chief Constable said Inspector Norris informed all chemists in the area of the Order, and on June 13 he visited Mr. Bryden and asked to see the register. The chemist admitted having dispensed two or three prescriptions containing cocaine, but said he had failed to obtain a register. He gave instructions to his son, who had forgotten to make the necessary entry in a special book. Mr. Bryden said his son had not obtained the register as instructed by him. Prescriptions containing cocaine are not very common. Mr. Bradshaw (for Mr. Steele) pointed out that in his case the cocaine was supplied to a doctor's female dispenser for the doctor's use, and he thought the doctor was an authorised person under the regulations, and that it was unnecessary to register the purchase. Mr. Bryden was fined 20s. and Mr. Steele 10s., and Mr. Bryden was further ordered to pay the cost of a witness.

**Eau de Cologne a Perfume.**—At Marlborough Street Police Court, London, on August 21, Mr. Arthur Oldcorn, chemist, of 1 Piccadilly Circus, W., was summoned, at the instance of the London County Council, for keeping his shop open for serving customers after 1 p.m. on June 30, a day on which he should have closed at that hour. Mr. Carter prosecuted, and Mr. W. Beck defended on behalf of the Chemists' Defence Association. Inspector Meaney, of the L.C.C., proved seeing a person buy a bottle of eau de Cologne in the defendant's shop at 6.20 p.m. on the date in question. There were two notices outside and inside the place that the establishment was closed "except for the sale of medicines or medical and surgical appliances." In answer to Mr. Beck, witness said he knew nothing of the medicinal or other qualities of eau de Cologne. Mr. Beck, addressing the Magistrate, regretted that in these days of stress and trial the public courts should have their time taken up by such trivial cases as the present one. He contended that eau de Cologne is, in fact, a medicine or a medical appliance within the meaning of the Shops Act; one not generally sold as a perfume solely. Dr. Wm. G. Stone, of Hillside, Champion Hill, gave evidence to bear out this view. Considering the extent to which it is used for medical purposes, he should not class it as a perfume, although no doubt it is used as such. Mr. Wm. Johnston, Secretary to the Chemists' Defence Association, gave evidence, from his own experience, of a similar character. Mr. Denman came to the conclusion that, although eau de Cologne is popular from a medicinal point of view, through its spirituous strength and pleasant odour, it cannot be considered outside the category of ordinary perfumes. However, in the circumstances, he should not impose any penalty, but simply order the defendant to pay 17. 1s. costs.

## Business Changes.

Mr. E. MOWAT, chemist and druggist, late of Sevenoaks, has purchased the business of Mr. F. James, 49 High Street, Cheshunt.

Mr. W. BENNISON, Ph.C., 133 King's Road and 8 Cale Street, Chelsea, London, S.W., has opened a high-class pharmacy at 325 King's Road (corner of Beaufort Street), Chelsea.

CHAS. ZIMMERMANN & Co. (CHEMICALS), LTD., whose offices are at 9 and 10 St. Mary-at-Hill, London, E.C. 3, have taken additional warehouse premises at 3 Love Lane, E.C., in order to effect deliveries more promptly.

SHIBAKAWA & Co., importers and exporters, Osaka and London, inform us that they have converted their business into a limited company under the title of Shibakawa & Co., Ltd. (Kabushiki Kaisha Shibakawa Shoten).

**AUSTRALIAN SPIRIT-TAX INCREASED.**—The imposition of additional Customs and Excise duties is announced from Melbourne (August 10), the principal increase being in the Customs duties, being 3s. per gal. on imported spirits, with a proportionate advance in the Excise of 1d. per gal.

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

HERBARY, LTD. (P.C.).—Capital 5,000*l.* Objects: To carry on business as manufacturing chemists, druggists, herbalists, etc. R.O., 82 Victoria Street, London, S.W.

WYNNE WILLIAMS, LTD., chemists, 89 Chalk Farm Road, London, N.W. (Limited Partnership).—General partner: M. Wynne Williams. Limited partner: S. R. Oriel.

CALDER'S MARGARINE CO., LTD. (P.C.).—Capital 50,000*l.* Objects: To manufacture, among other things, soap and glycerin. Solicitor: G. W. Allen, 41 Castle Street, Liverpool.

WILLIAMS & Co., SHIPPING CHEMISTS, LTD. (P.C.).—Capital 1,000*l.* Objects: To carry on business as chemists, druggists, and dealers in toilet and domestic preparations. R.O., 29 James Street, Cardiff.

EUCALENE CO., LTD. (P.C.).—Capital 1,000*l.* Objects: To take over the business of metal-polish manufacturers carried on by the Eucalene Metal-polish Co. at St. Helens. R.O., 242 Falkner Street, Liverpool.

THOMAS GOULD, LTD. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Manufacturers of and dealers in artificial teeth, surgical and dental instruments, medicines, drugs, etc. R.O., 135 Branton Street, Birmingham.

BORACUM, LTD. (P.C.).—Capital 100*l.* Objects: To carry on business as manufacturing, analytical, and consulting chemists, perfumers, dyers, oil and colour men, manufacturers of and dealers in medicines, proprietary articles, soaps, oils, dyes, and dental and surgical goods, etc. Solicitors: Schierwater & E. D. Symond, 5 Harrington Street, Liverpool.

MAJOR & Co., LTD.—The gross profit for 1916 was 23,800*l.*, against 17,600*l.*, and the net profit is 20,100*l.*, against 14,000*l.* The directors recommend placing to reserve 3,500*l.*, writing off from loans to subsidiary companies 6,700*l.*, paying a dividend of 5 per cent. on the deferred ordinary shares, and carrying forward 7,606*l.*

LIEBIG'S EXTRACT OF MEAT CO., LTD.—The report for the year ended March 31 last shows a profit of 330,739*l.*, which with the amount brought forward makes a total of 481,358*l.* The directors propose a final dividend on the ordinary shares of 10 per cent. (10s. per share), making with the interim dividend 20 per cent. for the year (free of tax), amounting to 60,000*l.*; a bonus of 5s. per share (free of tax) on the ordinary shares, 30,000*l.*; to employees' provident fund, 2,000*l.*; and deducting directors' percentages, 31,711*l.*; making a total of 233,711*l.*, and leaving 247,647*l.* to carry forward, subject to excess-profits duty.

WILLIAMS & Co. (SHIP SUPPLY DRUG STORES), LTD.—A meeting of the creditors of this company was held at Cardiff on August 18. It was reported that Mr. Leyshon, 108 Bute Street, Cardiff, the liquidator appointed by the shareholders, had been carrying on the business since January. A statement of affairs had not yet been prepared, as the liquidator is waiting to hear from some foreign creditors, but he states that the liabilities are approximately 400*l.* and the assets, consisting of cash from sale of the business, 250*l.* The principal creditors are: Burgoyne, Burbidges & Co., Ltd., 50*l.*; S. Maw, Son & Sons, Ltd., 36*l.*; Meggeson & Sons, 37*l.*

KEMP & Co., LTD., wholesale druggists, Bombay.—The annual report for the year ended March 31, 1917, states that the volume of business done was again in excess of the previous year. The total had only been exceeded twice during the last twelve years, although since 1914 the company has discontinued certain special lines of business which increased their returns by about Rs. 12,000 per month, but which yielded little or no profit. The percentage of working expenses was about the same as the previous year, as, although business had increased, extra expenditure had to be made on licences and taxes, and salaries and wages. The balance of profit-and-loss account was Rs. 61,984, out of which the directors had written off for depreciation on several accounts Rs. 14,500, leaving a balance of Rs. 47,484, which they recommend to be disposed of as follows: Dividend of 8 per cent., or Rs. 16 per share, Rs. 32,000; reserve fund, Rs. 10,000; carry forward, Rs. 5,484; making a total of Rs. 47,484.—At the annual meeting, held on July 14, Colonel Khambatta presided, and the report was adopted, an amendment by Mr. Bharucha to appoint a Committee of shareholders to inquire into the management of the company being rejected by a large majority.



## Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

### THE PARLIAMENTARY RECESS.

Both Houses of Parliament adjourned on Tuesday until October 16.

### PRIVATE ACTS.

Among the private Acts of Parliament which received the Royal Assent on August 21 were Levinstein, Ltd. (Railways), Act and Royal Victoria Infirmary, Newcastle-upon-Tyne, Act.

### SHOPS (EARLY CLOSING) ORDER.

Sir G. Cave, Home Secretary, stated in the House of Commons on August 16 that the present Shops (Early Closing) Order expires on September 30. He has little doubt that it will be necessary to renew it in some form, but the question will not be decided until next month.

### GANJA IN BURMA.

Sir Herbert Roberts, in the House of Commons, asked the Secretary of State for India whether he is aware that the proposed licensing of the importation and sale of ganja in Burma has aroused opposition in the province; whether his attention has been called to the resolutions passed by public meetings protesting against the opening of ganja-shops on the ground that the traffic in intoxicating liquors and drugs is repugnant to the tenets of the Buddhist faith; and whether, in deference to Burmese public opinion on this subject, the proposal will be abandoned.

Mr. Montagu, in reply, promised to make inquiries as to the facts.

### FOREIGN-CONTROLLED COMPANIES.

The Enemy Influence Sub-Committee of the Unionist War Committee has issued a report dealing with the disclosure of the identity of foreign-controlled companies or corporations. One recommendation is that all companies and corporations, both public and private, carrying on business in the United Kingdom which are foreign controlled shall be obliged by law to disclose this fact by inserting the words "Foreign controlled" at the end of the title of such company or corporation, and before the word "Limited" in the case of limited companies, except in cases where the foreign nature of the company is clearly and correctly designated in the title of the company—e.g., General Manufacturing Co. (Dutch), Ltd.

### THE WASTE OF OIL.

A Bill was introduced in Parliament on August 15 by Mr. Walter Long to regulate the getting of petroleum in this country. The object of the Bill is, in the event of petroleum being discovered, to prevent the extravagant waste of oil which has been evident in the United States and other oil-bearing countries. As oil moves easily under the surface of the earth, a well sunk on one property may drain the oil from an adjacent property. This fact has led to indiscriminate drilling, and it has been the means of riddling an oilfield with far more wells than are necessary to get the oil efficiently. Mr. Long's Bill tends to prevent these unscientific and extravagant methods of development by providing that the petroleum rights shall be vested in the Crown, with powers to grant leases to oil companies upon conditions which will prevent the extravagance referred to.

### ALCOHOL IN THE UNITED STATES.

Mr. Duncan Millar on August 14 asked the Secretary of State for Foreign Affairs whether he will obtain a report from the British Ambassador at Washington as to the provisions of the Food Bill which has now been passed by the United States Congress, and as to whether the Bill contains provisions prohibiting the use of foodstuffs for the manufacture of intoxicants, and conferring upon the President power to commandeer the existing stocks of distilled spirits for munitions and military or medical purposes?

Lord R. Cecil replied that the answer to the first part of the question is in the affirmative. As at present informed, he understands the Bill prohibits the use of foodstuffs for the production of distilled spirits, but he has no information to show that the Bill confers on the President power to requisition existing stocks of distilled spirits for national purposes.

### UNREGISTERED PRACTICE IN DENTISTRY.

In the House of Commons on August 20, Mr. P. W. Raffan asked the Prime Minister whether he has received a memorial signed by nearly 200 members of Parliament asking that the Departmental Committee on Unregistered

Practice in Dentistry should be reconstituted so as to include representatives of unregistered practitioners, and also a larger representation of members of the House of Commons; and, if so, whether it is proposed to give the additional representation asked for.

Mr. Bonar Law said the memorial had been received. It is hoped that it will be possible to take action in the direction suggested, but he could not make a definite statement then.

[This decision—our Parliamentary correspondent learns—is not distasteful to those who have been agitating for the representation on the Committee of unregistered dental practitioners and members of Parliament. Mr. Acland does not propose to summon his Committee together again until the early part of October, by which time the *personnel* of the Committee will, it is anticipated, have been altered in the desired direction.]

## Trade Notes.

**STOCKTAKING.**—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., announce that their warehouses will be closed on Friday, August 31, for the purpose of stock-taking. Only emergency orders can be executed on that day.

**PERFUMERY.**—The advertisement in the Supplement of the Essona Perfumery Co., Haydon's Bridge, London, S.W. 19, takes the shape of a price-list and order-form for the special preparations of the company. The goods ordered are sent on approval for three days.

**ALLENBURYS FOODS.**—A further revision has taken place of the prices of Allenburys milk-foods (No. 1, 2, and Diet), milk-cocoa, and food-chocolate. The minimum retail prices are those marked on the packages. The wholesale prices yield a profit on the return of 20 per cent.

**VACUUM FLASKS.**—Arthur Berton, Ltd., 15-17 Worship Street, London, E.C., remind chemists that now is the time to lay in a stock of vacuum flasks for winter trade. Particulars are given in the company's advertisement in this issue of the trustworthy flasks which are on offer.

**EDWARDS' PREPARATIONS.**—Edwards' "Harlene," Ltd., 20, 22, 24, 26 Lamb's Conduit Street, London, W.C., announce in this issue the altered prices for Astol and Cremex shampoo-powders. The new retail and wholesale prices are given, the altered prices taking effect from September 1.

**GLYCERIN RESTRICTIONS.**—The Anglo-American Pharmaceutical Co., Ltd., 59 Dingwall Road, Croydon, announce to their customers outside the United Kingdom that supplies of Huxley's Ner-vigor and Ner-vita should be drawn from their New York branch. Particulars are given in an advertisement in this issue.

**WAR EMERGENCY PREPARATIONS.**—A call at The British Drug Houses, Ltd., Graham Street, London, N., has disclosed some interesting features regarding the work that is being done to devise substitute formulæ for those which have been removed from the British Pharmacopœia. While the present stocks of sugar and glycerin last no change will be made in the formulæ, but it is necessary to look ahead and test the new formulæ against the time when no more glycerin and sugar will be available. In every case an indication will be given where the formula has been modified. The following is the label which it is proposed to employ:

#### Modified Formula.

The formula of this preparation has been modified, but the proportion of all the essential ingredients remains unchanged, and the medicinal properties are not affected.

We were shown some sugar-free preparations which have already been devised, but were warned that these may not keep so well as those made by the old formulæ, that being a matter which can only be settled after storing the preparations for six months or so. A sample of conf. sennæ, free from cane-sugar, which we examined, is the same strength medicinally and just as palatable. Another clever article is a substituted syr. ferri phosph. co., containing a smaller proportion of sugar. It is, however, quite palatable, although the difference between the new and old preparation is easily discernible to the taste. A good deal of experimental work is being done in the matter of finding substitutes for sugar and glycerin, and the work is disclosing unexpected difficulties. When, for example, syrupus tolutani is made with glucose the pleasant flavour of the tolu is almost entirely absent, showing that glucose is not a suitable substance to use in this case at least.



## Births.

MACEWAN.—At 64 Southwood Lane, Highgate, London, N., on August 16, the wife of Ian Peter MacEwan, second-lieutenant, A.S.C., of a daughter.

UNDERWOOD.—At Lyndhurst, Godalming, on August 14, the wife of Leon. C. Underwood, pharmacist, of a daughter.

WELCH.—At Bombay, on July 2, the wife of James Welch, chemist and druggist (Leach & Weborny), of a daughter.

## Marriages.

FLOOD—WESTMORELAND.—At Chatham Parish Church on August 15, by the Rector (the Rev. E. Godfrey Burr, D.D.), Charles J. Maynard Flood to Kathleen M., eldest daughter of Mr. W. H. Westmoreland, chemist and druggist, and Mrs. Westmoreland, High Street, Chatham.

### Silver Wedding.

BRISTOWE CARE—FREEMAN.—At Tufnell Park, London, N., on August 20, 1892, Harry Bristowe Care to Annie Elizabeth Freeman, daughter of the Rev. William Freeman, East Dereham, Norfolk. Present address: Cruin Cottage, Bonnyrigg, Midlothian.

## Deaths.

BEADLE.—At Oakbank, Sidcup, on August 16, Mr. Clayton Beadle, F.C.S., third son of Charles Beadle, Woodhall, Newport, Essex, aged forty-nine. Mr. Beadle was an expert on the chemistry of cellulose.

CHAPPELL.—At Boston Spa, on August 15, Mr. John Chappell, chemist and druggist, aged eighty-one. Mr. Chappell, who was apprenticed to the late John Taylor, Newark, went to Boston Spa fifty-nine years ago, and conducted a business there for over fifty years, and till within a few days of his death.

JACKSON.—At 32 Westfield Street, St. Helens, on August 9, Mr. Jabez William Jackson, chemist and druggist, aged seventy-four. Mr. Jackson was born at Creve, where he purchased a business before removing to St. Helens.

KINGSTON.—At Tipperary last week, Mr. Jeremy Kingston, R.D., aged twenty-eight. Mr. Kingston had resided at Tipperary for the past five years.

PRATT.—At Trefare House, Otley, on August 14, Mr. Richard Munton Pratt, chemist and druggist, aged eighty-nine. Mr. Pratt, who was apprenticed in London, went to Otley in 1854, and established a successful business. He was very popular in the town, and till a year ago enjoyed remarkable immunity from illness. The funeral took place on August 17, and was attended by representatives of public bodies.

RASTRICK.—At 188 Fulham Road, London, S.W., on August 1, Mr. Robert Joseph Rastrick, Ph.C., aged seventy-six.

SAMUELSSON.—On July 28, Mabel Louise, wife of Hermann Samuelsson, Linköping, Sweden, and second daughter of the late Mr. S. Lynn, chemist and druggist, 94 Queen's Road, Bayswater, London, W.

SMITH.—At Park Crescent, Abingdon, on August 4, Mr. William Finch Smith, chemist and druggist, aged eighty-six. Mr. Smith, who was in business in Abingdon for many years, was a generous subscriber to local charitable and other institutions.

WOOD.—At Sutton Coldfield, on August 12, Mr. Albert Wood, aged seventy-seven. Mr. Wood, who served his apprenticeship as a chemist, was a well-known naturalist, and in addition to a complete set of British birds' eggs, possessed a unique collection of rare Alpine plants and over 200 species of *Scemprevium*.

WRIGHT.—On August 9, the wife of Mr. A. G. Wright, chemist and druggist, 16 Market Square, Aylesbury.

### Died on Service.

BROWN.—The death in action is reported of Private Harry Brown, Manchester Regiment, aged twenty-two. Prior to joining the Army Private Brown was a partner in J. H. Brown & Co., wholesale druggists, Stanley Street, Nelson.

GROUNDY.—Second-Lieutenant John Firth Goundry, London Regiment, was killed in action in France on August 16,

aged twenty-four. Second-Lieutenant Goundry passed the Minor examination in July 1914, and had entered for the Major course before he enlisted in the autumn of that year. He was sent to France in the spring of 1915, was wounded in the battle of the Somme, and subsequently received his commission. He was the nephew and intended successor of Mr. J. P. Ellerington (Frizell & Co., Cranbourne Street, Leicester Square, London, W.C.).

HARPER.—Pioneer James Harper, Royal Engineers, has died of wounds received in action. Pioneer Harper was a chemist in the Army and Navy Stores in Calcutta and London before he enlisted. He was a son of Mr. James Harper, Ballycraig, Carnmoney, Belfast, and leaves a widow.

LEESE.—Private H. Leese, North Staffordshire Regiment, who has died on active service, was formerly with Wain Bros., Ltd., wholesale chemists and druggists, Longton, Staffs.

LONG.—Killed in action in France on July 31, Lieutenant F. J. Long, Royal Field Artillery. Lieutenant Long was an old member of the Honourable Artillery Company, and at the time of the Boer war went to South Africa with the C.I.V. He was a bombardier in the same corps at the outbreak of the war in 1914, and subsequently took a commission in the R.F.A. Since 1903 he had represented G. B. Kent & Sons, Ltd., in the southern and western counties of England, and his attractive personality endeared him to a wide circle of friends.

MARSDEN.—At a military hospital in France on August 14, of wounds received in action, Second-Lieutenant Harold Marsden, King's (Liverpool Regiment), son of Mr. W. Marsden, Mossley Hill, Liverpool (representing J. G. Ingram & Son, Ltd.). Second-Lieutenant Marsden obtained his commission while in the Inns of Court O.T.C.

MUNRO.—Lieutenant Ronald Munro, Argyll and Sutherland Highlanders, who has been killed in action, was the eldest son of Mr. J. J. Munro, chemist and druggist, Pollokshields, and a grandson of the late Colonel Joiner, of the old 93rd (Argyll and Sutherland) Highlanders.

WALLACE.—Gunner William Wallace, who for four years was principal assistant to Mr. Peter Boa, Ph.C., 49 Ashley Terrace, Edinburgh, was killed on August 3 by a high-velocity shell. He had been in hospital for a few weeks, and had resumed duty with his battery only about a week prior to the casualty. An efficient assistant and agreeable colleague, his death is much regretted by those with whom he was associated in business. He was a native of Mintlaw, Aberdeenshire.

## Personalities.

CAPTAIN CHARLES BATHURST, M.P., F.C.S., has been appointed Chairman of the Royal Commission on the Sugar Supply.

MR. W. E. GOFF, Ph.C., of Horrell & Goff, High Street, Dartford, has been appointed an overseer of the poor by the Urban Council.

A COMPASSIONATE ALLOWANCE of 50l. has been voted to Mrs. H. Douglas George, widow of the late dispenser, by the Board of the Poplar and Stepney Sick Asylum.

ALDERMAN OWEN A. CLARK, pharmacist (Nunn, Hinnell & Clark), Mayor of Bury St. Edmunds, was on August 17 elected a member of the Food Control Committee.

MR. ALEXANDER NAPIER, 13 Birch Grove, Rusholme, Manchester, desires to thank the numerous friends who have sent him expressions of sympathy in his bereavement (C. & D., August 18, p. 40).

MR. HENRY BEECHAM, who, with Mr. James White, is seeking to acquire a controlling interest in the Dunlop Rubber Co., is a son of the late Sir Joseph Beecham and brother of Sir Thomas Beecham. He is a director of the Beecham Trust, Ltd., which carries on a general financial business.

## Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

105/74. Bailey's "Goutin."	109/1. Elliott's ear-drum for
107/53. Gursen's surgical	gunfire.
wax.	112/36. "Ottomint" tooth-
107/34. Maple's earth.	paste.



## Observations and Reflections.

By Xrayser II.

### The Educational Information

given in your last week's number is admirably condensed, and includes every particular necessary to be known without any needless addition. There is one point connected with the Minor examination of pharmaceutical students which I have never heard explained, but which seems to me much in need of explanation. It is brought into prominence in your report by the use of italics. Why was not a regular apprenticeship to a pharmacist made compulsory? It is the very best means of training for the business of a pharmacist, and much experience with irregularly trained assistants has convinced me that there is no satisfactory substitute for it. The alternative you express in the italics referred to is often a mere blind, and it leaves the door open to much "dilution" of pharmaceutical labour. And surely it is an anomaly that the apprenticed candidate is given no advantage over the other.

### The Educational Reconstruction,

of which, appropriately, you speak in your Educational Number, concerns principally our elementary and secondary schools, but it ought not to stop there. There is one problem connected with it which you do not mention, though it is the subject of a paragraph on page 36 of the same number. Science, we are told, has in the past been neglected in our schools. It is quite true, but there is some danger now that classics may be neglected in their turn, and this would be an equal mistake. Some time since I was present at an instructive public debate between a well-known M.D. and an Oxford scholar on the subject of science *versus* classics in our schools. The doctor made out a good case for devoting more time to the study of science, but the scholar completely routed him when he contended for abolishing Latin and Greek as subjects of general study; and the meeting, though at the beginning distinctly favouring the scientist, ultimately voted against him by about three to one. The contention of his opponent was that science, however necessary from the practical point of view, can never supersede classics as an instrument of culture, and that culture is necessary not only to the perfection of the human mind, but to its greatest achievements in any sphere. And perhaps it is arguable that the comparative failure of Germany as regards original discovery is due to the too practical, too technical character of her educational system. Goethe lamented nearly a hundred years since that Germany had no culture.

### Mr. Skinner's Apology

for the Prospectus of the P.P. Club justifies my criticism of that document, and confirms me in the opinion that it ought to have been more definite and outspoken. The Club has, doubtless, more than one object (apart, that is, from its social function), and both the desire to make it as inclusive as possible, and the necessity of securing as much financial help as possible, are good reasons for not defining its policy too strictly. But various as are the objects of the Club, there is one preliminary condition to the attainment of them all—the democratisation of the Pharmaceutical Society, which the Prospectus only hints at in the very vaguest terms: the Club aims, we are told, at promoting necessary reforms and stimulating progress in pharmacy "through the agency of representative pharmaceutical bodies." But the chief pharmaceutical body of all is not, evidently, in Mr. Skinner's opinion, a representative body, since the ultimate end of the Club is to place it "on a real democratic (*i.e.*, representative) basis." Thus it appears that the means of this reform don't exist until the reform has been effected! This is not a mere quibble. If the Club aims at the democratisation of the Society, as I hope it does, as we are now told that it does, it would have been better policy in the long run to have said so boldly. It ought to have been put forward as the main plank in the Club's platform, and I

am glad, on the Club's own account, to have been instrumental in forcing it to the front. I gather from Mr. Skinner's letter that he agrees with me.

### 'The Fly in the Ointment'

is a phrase the meaning of which I have never heard questioned, but according to Mr. J. Spencer Palmer, M.P.S., I have, in common with most people, misunderstood it. The passage in Ecclesiastes in which it occurs reads thus in the Authorised Version: "Dead flies cause the ointment of the apothecary to send forth a stinking savour: so doth a little folly him that is in reputation for wisdom and honour." On the face of it the meaning seems plain: "As dead flies in an ointment spoil it, so does the admixture of a little folly spoil what might otherwise pass for wisdom." But this, says Mr. Palmer, writing in the "Bristol Times" of August 10, cannot really be what the Preacher means, because flies don't spoil ointments (presumably because they don't get into them): he has never heard of such a case. But possibly things may have been different when and where the Preacher wrote, in lands where flies are such pests that Beelzebub, the lord of flies, was propitiated by worship of the most abject kind, and became in Hebrew demonology the prince of the devils. Be this as it may, it is unfortunate for Mr. Palmer's contention that the ointment spoken of was one in which flies were the chief ingredient—*unguentum cantharidis*, in fact—that the "apothecary" of our Bible is in the Revised Version nothing but a perfumer, and that all the ointments mentioned in it are—I believe without exception—essentially perfumes. The most important of them all, the formula for which is given in Exodus xxx. 23-25, certainly was; so, clearly, were the "chief ointments" of Amos vi. 6, referred to as being used at great festivals; so, too, was the "ointment of spikenard, very costly," of Mary of Bethany. Dead flies would certainly be out of place in such ointments as these.

### The Birthplace of Evelyn, the Diarist,

is, or should be, for all lovers of trees a shrine to be visited whenever occasion occurs. His description of the place, "sweetly environed with delicious streams and venerable woods," still holds good, though he records that in a great storm in November 1703 he had more than 2,000 trees on his estate blown down in a single night, so that "the place was no more Wotton (Woodtown), stripped and naked, and almost ashamed to own its nature." Nature, however, soon repairs these ravages, especially when aided by such a tree-planter as Evelyn; and the pines and beeches he loved—some of the latter among the most magnificent specimens I have seen—still surround the house and give a distinctive beauty to the neighbourhood. It is many years since I first read his "Sylva" (a copy of which is in the Pharmaceutical Society's library), and I dare say there is a good deal in it which is not of much direct use to the modern student of botany, but it has the charm of true literature, which is more than can be said of most works of the kind; and I owe to it the awakening of my interest in trees as objects of study. The pine, even more than the beech, was a favourite tree with Evelyn, and it would grieve him to know that the hills of his native county are now to be, for a time at least, stripped of their chief ornament, the noble pine-woods sacrificed to the exigencies of war. Evelyn was one of the first Fellows of the Royal Society; he had the true scientific spirit; he experimented in chemistry and physics, though repudiating the title of quack; and both in the speculative and in the practical sphere he was one of the most active men of his time. He was, however, as his "Diary" is sufficient to show, greater in himself than in anything he accomplished—a man whose character surpassed his attainments, notable as these were.

MORE GERMAN VILLAINY.—Poisoned soap is, according to a Washington message dated July 31, the latest German weapon, and is being hawked by peddlers. Detectives have effected six arrests in Illinois, and a well-known chemist of German extraction is under surveillance.



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# Editorial Articles.

Doing without Germany.

III.—France.

THE imaginative power of intellectual Frenchmen has made France the foremost creative nation in the world. It is therefore not surprising that modern chemistry owes its impetus to the French. It has been stated that "chemistry is a French science," and it is certainly difficult to imagine the stage of development which would have been reached by now if it had not been for the pioneer work of Macquer, De Morveau, Lavoisier, Berthollet, Fourcroy, Vauquelin, Thénard, Gay-Lussac, Dulong, Dumas, Laurent, Deville, and other illustrious French chemists. From various causes, however, the lead in chemical industry was lost, although the manufacture of certain classes of fine chemicals has formed a notable exception. There is no doubt that one of the reasons why chemical-manufacture in France had fallen to a condition of subordination was the deliberate undermining of the industry by that country's traitorous neighbour. The policy of Germany had been to carry on in France a pretence of making chemicals with imported intermediate products, so as to obtain the advantage of the French national reputation. Soon after the war broke out in 1914 there was established in Paris the Office des Produits Chimiques et Pharmaceutiques, one of the purposes of which, as described in the C. & D. at the time, was to promote the manufacture in France of those chemicals that had hitherto been imported from Germany, and to ensure the establishment of the new industries upon a sound basis. The Office deals with the supply of raw material and chemical plant in a thorough manner. Although up to the present the main results have been centred round the production of war-material, there has been established an important national dye-industry, and it is intended when peace comes to divert the chemical-factories at present making explosives into a group of new chemical-industries. Many developments have already taken place in the utilisation of the water-power of the French Alps for electro-chemical purposes. Nitric acid is being made from atmospheric nitrogen on a satisfactory scale, and the output of soda and chlorine has been much greater than ever before. France is independent of outside sources for its sulphuric acid, and there are new works making sodium bichromate, potassium permanganate, and potassium salts. France and Great Britain are sharing between them the world's raw material in the shape of oilseeds, thus ensuring a plentiful supply of oils and fats for industries and food-purposes. The aniline dye works—Compagnie Nationale de Matières Colorantes



et de Produits Chimiques—is founded on similar lines to British Dyes, Ltd., in this country, and the national chemical-works will consequently manufacture many synthetic products required in medicine and pharmacy. Many fine chemicals have been produced in France for some years, but since the war great developments have taken place, notwithstanding the immense difficulties due to the mobilisation of all men of military age. The factories have been organised on a larger scale. The manufacture of salvarsan, which the Germans regard as a test of chemical evolution, has not only been mastered, but improved upon, and new compounds of a like nature have been introduced. Now that the French Government has realised the importance of chemical industry and is prepared to provide educational and commercial facilities, it is certain that not only will the national needs be met, but that an important export trade will be carried on. As in the United Kingdom, all German businesses in France are being eradicated, so that the noxious influence of Germany may not for some years at least overshadow France. One of the recent instances to which our attention has been called is the transference to a French firm of an important lavender-distillery which the Germans had installed in the French Alps.

### War-time Formulæ.

ONE of our subscribers takes exception to the statement we made last week that the effect of the removal from the Pharmacopœia of the sixty-three galenicals is exaggerated. In the *C. & D.*, August 4 (p. 44), it was pointed out that the action of the General Medical Council only releases chemists from the obligation of Section xv. of the Pharmacy Act, 1868, in regard to dispensing prescriptions in which the particular galenicals are ordered. We think, however, that although these articles are no longer in the Pharmacopœia they could still be established as standards under the Sale of Food and Drugs Acts not only for ordinary sales over the counter, but in dispensing. One has only to consider the case of the preparations which were in the B.P. 1898, but were not included in the B.P. 1914. Among these were, for example, tinct. aloes, tinct. croci, tinct. lupuli, tinct. conii, and tinct. sumbul. Suppose it were required now to produce evidence in a law court on the question of standards for these articles, we contend that the formulæ of the B.P. 1898 as the last that were official would be accepted. The same argument holds good in regard to the preparations recently deleted from the B.P. 1914. The medical view of the matter is that the omission of preparations from the Pharmacopœia leads to their disuse, but we doubt whether such a result will be attained. The proper course for the General Medical Council to have taken would have been to issue revised formulæ which would have been presumptive standards under the Sale of Food and Drugs Acts. The Pharmaceutical Society has announced that a Supplement is being prepared to the British Pharmaceutical Codex, in which alternative formulæ will be given for the whole of the preparations deleted from the Pharmacopœia. The idea seems to be that these will become presumptive standards under the Sale of Food and Drugs Acts—they will perhaps, but only where British Pharmaceutical Codex preparations are indicated. The publication of formulæ by any other body than the General Medical Council can have very little effect on the legal question of standards, because, although no longer in the Pharmacopœia, preparations made under the pharmacopœial titles would be expected to conform to the last official formulæ. It was on this account that we recommended chemists to exercise great care in dispensing and selling by retail any of the galenicals which have been declared to be unofficial, and to connect the words "War Emergency Formula" with the altered preparations. This leads us to other questions which will have to be faced so soon as the stocks of sugar GLYCYRRH. at present available have been used up. One of these is whether the strength of pulv. glycyrrh. co. should be increased by the omission of the sugar. There is 52 per cent. of sugar in

pulv. glycyrrh. co. Would it not be better to replace this by an inert substance, so as not to alter the dose? This would, it is believed, cause less inconvenience to the public. As regards suitable substances to replace the sugar, there is Balmanno Squire's suggestion to employ powdered almond meal and gum acacia in the proportion of eight of meal to one of gum. Another suitable diluent is powdered oatmeal sweetened with saccharin, but oatmeal is barred by the terms of the Maize, Barley, and Oats (Restriction) Order, which only permits the cereals mentioned to be used for "human and animal food, and the manufacture of articles of food." The same Order prevents the use of suitable starches, such as arrowroot. If the sugar were replaced by powdered liquorice we believe the powder would be increased in activity owing to the added laxative effect of the excess of this substance. This could be settled by experiment. It has to be remembered also that the use of pulv. glycyrrh. co. has decreased considerably from various causes, but in the interests of uniformity it would be as well to have the question decided as to whether it is desirable to replace the sugar by some inert ingredient or, by simply leaving out the sugar, produce a stronger and more unpleasant tasting powder.

The case of confectio sennæ somewhat resembles that of pulv. glycyrrh. co. This popular confection contained 40 per cent. of sugar according to the CONF. formula of the British Pharmacopœia. Here SENNÆ. it would seem that the strength should be maintained by using honey or invert sugar in place of sugar. This would probably affect the consistency, although one of the wholesale houses at least has managed to produce a good substitute of the same physical characters as the confection made with sugar. In the case of confectio sulphuris it would probably only be necessary to revert to the glycerin-free—but defective—recipe which was official in the B.P. 1885.

The five tinctures which have been omitted present one or two problems. As mentioned last week, a smaller quantity of glycerin than that ordered in TINCTURES. B.P. 1914 would probably have the required preservative effect in tinct. rhei co. Tinct. sennæ co. had 10 per cent. of glycerin added in the B.P. 1914 to replace the raisins, and this could be omitted from the formula without any difference to the medicinal effect. The same remark applies to tinct. pruni virg. The case of tinct. card. co. is somewhat more complicated. The B.P. 1914 replaced the raisins by glycerin and also lowered the alcoholic strength of the tincture. Hill and Umney have since shown that the formula has been spoilt by reducing the strength of the alcohol from 60 per cent. to 45 per cent. What seems therefore, to be indicated is a reversion to the B.P. 1898 formula, but omitting the raisins as unnecessary.

It has been discovered that an error has crept into the formula for mist. trag. chlorof., the substitute for glycerin devised by the London Pharmaceutical Committee and adopted by the Insurance TRAG. Committee. The originator of the preparation CHLOROF. is, we believe, a well-known hospital pharmacist, and when the suggestion was first made in public by Mr. Melhuish at the April meeting of the Western Pharmacists' Association it was stated that the preparation—mist. tragac. dulc. it was called then—is "half strength muc. tragac. in double-strength aq. chlorof." As published by the London Insurance Committee (*C. & D.*, July 28, p. 45) and the National Health Insurance Commissioners there is an excess of chloroform which is only imperfectly emulsified by the tragacanth. The correct formula is as follows:

Gum tragacanth, in powder	...	30 gr.
Chloroform	...	24 minims
Water to	...	10 fl. oz.

It will be remembered that aq. chlorof. was of this strength in the British Pharmacopœia 1885, but the amount of chloroform was reduced to one-half in the Pharmacopœia of 1898.



## "Justice to the Pharmacist."

THIS is the headline of a communication to the "Journal of the American Medical Association" from Mr. John W. England, the Secretary of the American Pharmaceutical Association, calling attention to the loss of efficiency which results from the non-recognition of pharmacists by the United States Army. Mr. England states that there are about 150,000 pharmacists in the United States, from whom an ample supply for the army could be drawn, and he adds: "American pharmacy is not seeking any special privilege, but it is asking for proper professional recognition in the army service to the end that it may have the opportunity to do its fullest and best work for the sick and wounded." Viewed from this side of the Atlantic it is remarkable to find such an appeal in a medical journal, and it is still more interesting to have it endorsed unequivocally as follows:

"Physicians, dentists, and veterinarians are officially recognised by the Government as men of special training, whose technical knowledge can be of use to the nation in time of war. Provision is made so that men in these three professions can be enrolled as commissioned officers and their skill thus most efficiently used by the Army. The pharmacist, however—as a pharmacist—is utterly ignored. If he enlists, he does so as a private. So far as official recognition of it is concerned, the science and art of pharmacy might not exist for the Army. . . . It will materially lighten the arduous duties and responsibilities of the physician to have in the Army trained pharmacists who will be able to give intelligent co-operation. But it is imposing too great a strain on the patriotism of those whose special knowledge is obviously a large asset to the Army to expect them to enlist as privates without any recognition of their national worth. Pharmacists should be given a rank commensurate with their importance—first, because it is but simple justice to the pharmacists themselves; secondly, because the usefulness of the Medical Corps will be greatly augmented; and lastly, and most important, because the efficiency of our Army demands it."

Mr. England makes the statement that pharmacists have been trained not only in pharmacy, but they have also had elementary training in some of the medical sciences, and could be made most useful "medical assistants" in the field, while in the hospitals they could be made purveyors and given charge of the medical supplies, as well as render pharmaceutical and chemical service in the dispensing of drugs and in the chemical and bacteriological examination of food, water, milk, excrements, etc. In addition they could be developed into useful workers in radiographic practice (many pharmacists are capable photographers), the administration of anaesthetics, bandaging, and sanitation. We commend this list to the Committee which has been appointed by the Director-General of the Army Medical Service, and particularly to the pharmaceutical members. The announcement which we made last week (p. 35) as to the appointment of this Committee is of particular interest. The suggestion of the deputation was made by Mr. Hynes, a new member of the Council of the Pharmaceutical Society, at the first Council-meeting he attended in June. Although the proposal was received very coldly by the official clique, the result has so far exceeded that of any previous visit to the War Office. In October 1915 a deputation from the Pharmaceutical Society waited on Mr. H. J. Tennant, at that time the Under-Secretary of State for War, but the members were told that the War Office did not require a further supply of qualified men to act as pharmacists. There is, however, the notable difference that the deputation this month was received by Sir A. Keogh, the Director-General of the Army Medical Service, and in questions of this kind it is half the battle to be able to place one's case before the right man.

### Patent Act Amendment.

THIS QUESTION is occupying certain Departments of the Government, but so far no indications have been given as to the nature of the reforms which are contemplated. Dr. A. Rée made a valuable contribution to the subject at the annual meeting of the Society of Chemical Industry last month. His suggestion is the simple one of amend-

ing the Patent Act, 1907, so that the onus of proof of working a patent in this country is again put on the patentee. When the judgment of Lord Parker rendered the compulsory working sections of the 1907 Act ineffective the Germans who had begun to manufacture patented articles in this country at once modified their schemes. Formerly the threats of Germans to revoke patents taken out in Germany by Englishmen acted as a deterrent to further action in this country, but in future we should legislate on the lines which are required by manufacturers here without regard to Teuton convenience.

### Abyssinian Potash Salts.

IN 1911 an Italian pioneer made a valuable discovery of potash salts near the boundary line between Abyssinia and the Italian colony of Eritrea, but it attracted little notice because the Stassfurt potash then commanded the markets of the world. However, the discoverer secured a thirty-five year concession from the Abyssinian Government, and the potash is now coming on the Italian market. The mine is forty-six miles from the Red Sea port of Fatinari, which is seventy-six miles south of Massowah and about 400 miles north of Aden. The deposit averages 55 per cent. or more of pure muriate of potash, and it is estimated that 7,000 tons monthly can be made with present facilities, while a railway has been built from the sea coast. Already substantial tonnages have been sold to an Italian chemical factory at a price equal to 38l. 12s. per ton, which is about five times the normal price of similar German potash before the war. There is, of course, great difficulty in getting steamer-space to carry the potash to Europe, but this is a matter which will adjust itself in time. This discovery should encourage prospecting for potash in other parts of the world.

### Making Lime-water.

AN INTERESTING POINT was raised for the defence in the lime-water case under the Sale of Food and Drugs Act which we reported last week (p. 33). It was suggested that the B.P. directions for making lime-water—"shake for two or three minutes; set aside until clear"—are defective. We think that it is the practice to shake the calcium hydroxide and water together for a longer period than that ordered in the Pharmacopœia, but it would be as well to have the point settled experimentally. The preparation of lime-water is one of the simplest operations, but yet there are several pitfalls for the unwary. The chief difficulty is caused by the use of calcium hydroxide which has become carbonated. Mr. W. Johnston, Ph.C., the Secretary of the Chemists' Defence Association, suggests that the particles of calcium hydroxide by exposure to air become coated with calcium carbonate, thus protecting the lime from the solvent action of the water and preventing a full-strength lime-water being made readily. In the British Pharmacopœia 1893 the lime-water, after shaking for two or three minutes, was required to be set aside "for twelve hours," but in the 1914 Pharmacopœia no time is stated.

### Rubber Operating-gloves.

THE BRITISH MEDICAL ASSOCIATION has addressed a memorandum to the Board of Trade in regard to the prohibition of the importation of the rubber gloves worn by surgeons when operating. There is a shortage of these necessary articles, which, until the prohibition referred to, were largely imported from the United States. Licences to import have been granted, but we gather that the British Medical Association is asking that the importation in ample quantities should be allowed without the formality and delay of obtaining licences.

TRADING WITH THE ENEMY IN U.S.A.—A Trading with the Enemy Bill has already passed the American House of Representatives, and is now before the Senate. This follows the lines laid down in Great Britain's Trading with the Enemy Acts. Its chief features are prohibitions against business intercourse with any country with which the United States is at war or its allies, except under licence, and provisions for governmental seizure of property of alien enemies and the utilisation of enemy patents.



## Medico-Pharmaceutical Ethics

A CONFERENCE was held in Melbourne on April 24, between representatives of the Victorian Branch of the British Medical Association and representatives of the Pharmaceutical Society of Australasia, the Pharmacy Board, and Pharmaceutical Defence Ltd., when numerous ethical questions were discussed. The result was that the following rules of practice were adopted:

1. *Prescriptions—Doubtful Interpretations.*—In cases where there is some doubt regarding the interpretation of any prescription, it shall be the duty of the pharmacist dispensing the same to communicate with the prescriber if possible. It is preferable that such communication should be in writing. In cases where it is necessary to telephone to the prescriber, care should be taken to see that the conversation is as private as possible.

2. *Correction by Prescriber.*—The prescriber in such a case will recognise that the pharmacist is simply performing what is an important part of his professional duty, and will at once co-operate with him in the interests of his patient. He will correct or confirm the prescription. If a correction is necessary, he may request the pharmacist to retain the prescription, and will forward to him the corrected one. As far as possible, verbal corrections should be confirmed in writing.

3. *The Attitude of Prescriber and Dispenser* should be one of mutual respect and co-operation.

4. *Unusual Characteristics.*—In cases where a prescription contains (a) an incompatibility, (b) an unusually large dose, (c) a dangerous dose, or possesses some other characteristic of an unusual nature, the prescriber shall indicate that such peculiarity is intended, and is not inadvertent, by underlining that particular part of the prescription, and initialling the same in the margin.

5. *Where Prescriber cannot be Consulted.*—Where a pharmacist is doubtful of the interpretation of a prescription, and it is not possible to consult the prescriber, he shall, after careful consideration, modify the prescription in accordance with what he believes to be the intention of the prescriber. He should, if possible, subsequently communicate with the prescriber by letter, and inform him of what he has done. Care should be taken to see that such discretion, when exercised, does not interfere with the therapeutic value of the medicine.

6. *Modifications to be Noted.*—Where a pharmacist finds it necessary to modify a prescription, under paragraph 5, he should make a marginal note on the prescription indicating the course he has adopted in dispensing the prescription. The marginal note should be as brief as possible.

7. *Prescribing by Telephone.*—When prescriptions are dictated by telephone, the following rule should be observed: The prescriber should first write out the prescription, and then read it through the telephone to the dispenser. He should request the dispenser to read to him the prescription as taken down, and should, as soon as possible, forward the original prescription to the pharmacist either by post or by the patient.

8. *Criticism Deprecated.*—It is undesirable that a prescriber should adversely criticise a pharmacist unless he is guilty of some offence in his calling. The pharmacist on his part should refrain from discussing with the patient the prescriber or the merits of his prescription. Matters relating to professional fees or the prices charged for medicines should not be discussed with patients.

9. *Unsigned Prescriptions.*—When a prescription is received with the "usual signature," the pharmacist should ascertain from the patient the name of the prescriber, and, if possible, submit the prescription for his signature before dispensing it so as to relieve the prescriber as well as himself from the risk of penalty. The use of a rubber stamp in lieu of the prescriber's written signature should be avoided.

10. *Repetition of Prescriptions.*—When it is desired that a prescription should not be repeated, the prescriber should write on the prescription, "Not to be Repeated," or "To be Repeated twice only," or any specified number of times. In cases where such directions are given, the pharmacist who dispenses the prescription should indorse the prescription as follows: Supplied (here insert date and pharmacist's signature).

11. *"Spoonfuls" to be Abandoned.*—With the object of securing greater accuracy in dosage, the use of the words "teaspoon," "dessertspoon," and "tablespoon" in the directions on a prescription should be discouraged. Prescribers should write the dosage in drachms or ounces, and patients should be advised to measure the doses in a measure-glass.

The following questions were also discussed:

*Property in Prescriptions.*—The British Medical Association in 1891 took counsel's opinion, and was advised that a prescription legally became the property of the patient. De Styrup's "Code of Medical Ethics" states that neither the patient nor the pharmacist has any right to use the prescription except for the case and purpose specified. A copy of a prescription may be given to the original patient. The Ethics Committee made no decision.

*Prescribing Proprietary Medicines.*—The B.M.A. Ethical Rule 2 was discussed with reference to the prescribing of nostrums and proprietary medicines, the formula of which was unknown to the prescriber. The B.M.A. undertook to consider the subject further on receipt of the written views of the Pharmaceutical Society.

*Commissions on Prescriptions from Pharmacists.*—The B.M.A. Ethical Rule 9 declares that it is unethical to divide fees with or give commission to medical practitioners or laymen. The Ethics Conference did not decide whether this applies to giving of commission on prescriptions by pharmacists to doctors, or the receiving of commissions by doctors.

*Cipher Prescriptions.*—The B.M.A. Code of Medical Ethics, paragraph 2, declares it to be unethical for a member of the B.M.A. in Australia to prescribe or dispense secret remedies. The B.M.A. Victorian Branch decided that this covered the writing of cipher prescriptions, and a member who wrote them has been declared guilty of unprofessional conduct, and his resignation accepted. Both sides undertook to discourage the use of cipher prescriptions.

*Consulting Chemists.*—The Ethics Conference adopted as a rule of practice the following: Pharmacists should not use the title "Consulting Chemist," set up private consulting rooms, visit patients (except in isolated cases and under extraordinary circumstances), use the stethoscope, vaginal or rectal speculum, or give to a patient a certificate relating to the state of such patient's health or one indicating that such patient has undergone treatment.

*Counter Practice.*—The right of counter practice so far as it applies to the treatment of minor ailments is recognised. The diagnosis of disease by pharmacists should not be undertaken.

*Nurses and Hypodermics.*—The Ethics Conference decided that nurses should be asked to produce written authority for the supply of hypodermic tablets of morphine, strychnine, cocaine, ergot, and other similar drugs.

## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Reports from Local Centres.

#### ENGLAND.

**Birmingham.**—At the meeting of the Pharmaceutical Committee held on August 17, Mr. W. H. Whittock was elected Chairman in place of Mr. C. Thompson, resigned. The vacancy caused by Mr. W. Izon's retirement from the Committee through illness was filled by the co-option of Mr. H. Rigg, and a resolution was carried expressing regret at Mr. Izon's resignation, sympathy with him in his illness, and appreciation of his services since the formation of the Committee.

**Sheffield.**—A meeting of panel chemists was held on August 15 at the rooms of the Literary and Philosophical Society. Mr. A. H. Culverhouse presided, and was congratulated on his election to the chair and thanked for the work he had already done for the benefit of pharmacy in connection with Insurance dispensing. The Pharmaceutical Executive's proposed dispensing terms were then discussed and amended. Messrs. Culverhouse and Anteliff were appointed delegates to the district meeting to be held in Sheffield on August 29. The report of the Central Checking Bureau for April was considered very unsatisfactory, and it was decided to ask the Pharmaceutical Committee to take the necessary steps to have the matter rectified.

#### SCOTLAND.

**Ayrshire.**—At the last meeting of the Insurance Committee, the Clerk submitted a report containing the following figures supplied by the Checking Bureau: Chemists' accounts for 1916 aggregated 2,490l. 14s. 3d., compared with 2,710l. 10s. 7d. in 1915; the prescriptions dispensed numbered 61,292, against 69,741 in the preceding year; the average cost per prescription was 9.75d., against 9.32d. in 1915; and the cost per person on doctors' lists averaged 1s. 3.34d., compared with 1s. 4.77d. in the previous twelve-month. In the discussion which followed, Mr. J. M. McMillan, chemist and druggist, Ayr, said he would like to say from personal experience that the establishment of the Checking Bureau had been an unqualified success, and



the Commissioners showed great astuteness in appointing Mr. Gilmour superintendent. He was a man of undoubted ability, and had taken no end of pains to put matters on a satisfactory footing, holding the balance fairly between doctor, chemist, and Committee. The statistics he furnished were a marvel of capable administration, and it was no small job to look after the pricing of all the panel prescriptions for Scotland. Until the Bureau came into existence the pricing of the prescriptions was a nightmare to the chemist.

#### August Drug-prices.

The August Appendix to the Drug Tariff has been issued, and contains a request to chemists to supply only appliances in the Second Schedule to the Regulations on p. 20 of the Tariff, as payment for others will be disallowed. Pharmacists are also reminded that unqualified assistants, though exempted from military service as engaged in dispensing Insurance prescriptions, can only be legally employed under the direct supervision of a registered chemist. Proceedings have already been taken in cases where unqualified persons have been left in charge of shops. The alterations in prices from those of the July Appendix are subjoined:

Name	oz.	dr.	Name	oz.	dr.
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Acetomorph. hyd.	—	7 8½	Theobrom. sod.	—	—
Acid. acetylsal.	2 3	0 4	sal. ...	6 4	0 11
„ salicylic. ...	0 10	0 1½	Thymol ...	5 11½	0 10½
Bals. peru. ...	2 8½	0 5	Tinct. opii ...	0 8	0 1½
Ext. cascarr. liq.	0 3	0 0½	Ung. gall. c. opio	0 8½	0 1½
„ ergot. liq. ...	0 6	0 1	„ hydrarg.	0 4½	0 1
Homatrop. hydro.	—	—	„ sulph.	0 4½	0 0½
brom. ...	1s. 10½d.	per grain	„ zinci ...	0 2	0 0½
Iodoformum ...	2 5½	0 4	Zinci valerianae	5 11½	0 10½
Ol. morrhuae ...	3s. 7d.	imp. pint	Unmedicated lint, 2 oz. 6d., 4 oz.	—	—
„ olive ...	0 1½	0 0½	11½d., 8 oz. 1s. 11d., 1 lb. 3s. 6d.	—	—
Opium pulv. ...	5 6	0 9½	Boric lint, 2 oz. 4½d., 4 oz. 8½d.,	—	—
Potass. bicarb. ...	0 3	0 0½	8 oz. 1s. 4d., 1 lb. 2s. 5½d.	—	—
„ permang. ...	1 7	0 3	Cotton-wool, 1 oz. 2½d., 2 oz. 4d.,	—	—
„ acid. tart.	0 3	0 0½	4 oz. 7½d., 8 oz. 1s. 2d., 1 lb.	—	—
Salol ...	1 5	0 2½	2s. 1½d.	—	—
Sodii salicylat. ...	1 0	0 2	Boric wool, 1 lb. 2s. 6½d.	—	—

#### Notes.

DRUG TARIFF PROPOSALS FOR 1918.—Following the issue to Pharmaceutical Committees of the recommendations as to the terms of the Drug Tariff for 1918 a series of meetings has been arranged to cover the districts of the various pricing groups of England and Wales. The first meeting was held in Manchester on August 8, and another in London on August 15, under the chairmanship of Mr. E. T. Neathercoat, who is also to preside at the six meetings still to be held at Birmingham, Sheffield, Leeds, Newcastle-upon-Tyne, Cardiff, and Bristol.

AUGUST TARIFF PRICES.—The following are the alterations for August in the Drug Tariff issued by the National Insurance Commissioners for England and Wales:

**Lower:** Acid. citric. pulv., 4s. 4d. lb.; ammon. brom., 5s. 3d. lb.; calc. lact., 15s. 3d. lb.; ext. ergotae, 1s. 10d. oz.; ext. hyoscyam. sicc., 1s. 11d. oz.; menthol, 1s. 2d. oz.; sodii benz., 2s. 5d. oz.; strontii bromidum, 6½d. oz.; tr. opii ammon., 6s. 8d. lb. **Higher:** Acetanilidum, 4s. 3d. lb.; acetum scillae, 7½d. lb.; acid. carbolic. liq., 2s. 5d. lb.; acid. salicylic., 11s. 6d. lb.; acid. sulphuros., 4½d. lb.; acid. tannic., 9s. 6d. lb.; adeps lanae, 3s. 10d. lb.; adeps lanae hydrosus, 3s. 3d. lb.; argent. nit., 2s. 10d. oz.; argent. nit. indur., 3s. 3d. oz.; argent. nit. mitigat., 2s. 10d. oz.; atrop. sulph., 8s. gram.; bals. peruv., 2s. oz.; creosotum, 1s. 7d. oz.; diamorph. hydrochl., 6s. 8d. dr.; ext. opii sicc., 9s. 2d. oz.; ferri carb. sacc., 1s. 4d. lb.; ferri et pot. tart., 4s. 9d. lb.; inf. aurantii (ex conc.), 3s. 6d. lb.; inf. casearii (ex conc.), 2s. 2d. lb.; inf. ros. acid. (ex conc.), 3s. 10d. lb.; inf. scennae (ex conc.), 2s. 10d. lb.; lin. camph., 2s. 3d. lb.; lin. camph. am. meth., 2s. 4d. lb.; lin. opii, 7s. 2d. lb.; lin. terebinthinæ, 1s. 3d. lb.; lin. tereb. acct., 1s. 9d. lb.; liq. ferri acet., 9d. lb.; liq. formaldehyd., 1s. 8d. lb.; liq. gutta-percha, B.P.C., 6s. 6d. lb.; liq. opii sed., B.P.C., 1s. lb.; liq. plumbi subacet. fort., 7d. lb.; liq. trinitrini, 10d. oz.; lithii carb., 9½d. oz.; methyl salicylas, 7d. oz.; ol. amygdale, 3s. 5d. lb.; ol. earyoph., 11s. 6d. lb.; ol. croton., 8½d. oz.; ol. menth. pip. (redistilled), 21s. 6d. lb.; ol. olive (sublime), 15s. gal.; ol. tereb. rectif., 1s. 3d. lb.; opium pulv., 4s. 5d. oz.; oxymel scillae, 1s. 3d. lb.; paraff. mol. (alb.), 1s. 4d. lb.; paraldehyd., 1s. 6d. oz.; pot. brom., 8s. 6d. lb.; pot. permang., 17s. 6d. lb.; pot. sulph., 2s. lb.; pot. tart. acid., 2s. 10d. lb.; pulv. cretæ c. opio, 3s. 4d. lb.; pulv. ipecac. co., 10s. 6d. lb.; pulv. jalap. co., 3s. 4d. lb.; pulv. opii co., 10s. 6d. lb.; pulv. rhei co., 3s. lb.; quin. hydrochlor., 4s. 8d. oz.; salol, 1s. 2d. oz.; sapo mollis, 1s. 9d. lb.; sodii phosph. eff., 3s. 4d. lb.; sodii salicylas (cryst.), 13s. lb.; stramon. fol., 1s. 5d. lb.; sulphonal, 4s. 1d. oz.; syr. ferri phosph. co. B.P.C., 1s. 3d. lb.; tab. salol. gr. v., 2,22d. per doz.; tab. sulphonal B.P.C., gr. v., 6,66d. per doz.; terebinum, 2s. 6d. lb.; thymol, 4s. 9d. oz.; tr. asafet., 5s. 6d. lb.; tr. digitalis, 5s. lb.; tr. opii, 8s. lb.; ung. glyce. plumbi subacet., 1s. 10d. lb.; ung. paraffin. flav., 1s. 1d. lb.; ung. resinae, 2s. 1d. lb.; vinum colchici, 4s. 9d. lb.; zinc. oxid., 1s. 6d. lb. **Appliances:** Lints, unmedicated, in packets, 1-oz. 2,75d., 2-oz. 5,53d., 4-oz. 10,50d., 8-oz. 20,50d., 1-lb. 40,00d.; boric, 1-lb. 23,00d.; wools, cotton (interleaved) in packets, 4-oz. 5,75d., 8-oz. 11,00d., 1-lb. 21,00d.; rubber ice-bags, helmet shape, 78,00d. each.

## Association Affairs.

**Chemists' Dental Society.**—A special meeting of the Emergency Committee was held at the Pharmaceutical Society's house, Bloomsbury Square, on August 16, to decide on the action to be taken in view of the formation of a Departmental Committee on Dentistry. The chair was taken, first, by the Vice-President (Mr. J. L. Smith, Manchester), and later by the President (Mr. Kenneth Nixon, Long Eaton). Correspondence between the Secretary (Mr. Benson Harries) and the Departmental Committee was read, the situation was thoroughly discussed, and arrangements were made for putting the claims of the Society before the Committee at the proper time. The subject is to be followed up energetically.

**London (E.).**—A river trip, arranged by the West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists, took place on August 16. The party went by train to Richmond, whence a steamer took them to Hampton Court. The weather was glorious, and the members were delighted with the trip. Tea was served at the Mitre Hotel, where about thirty members and friends



sat down under the chairmanship of Mr. F. W. Gwinn (President), after which the Palace grounds were visited, and later in the evening the party returned to Richmond by omnibus, thus having the advantage of a change of scenery from that of the river. "A most enjoyable outing," was the unanimous opinion of those who participated in this most agreeable jaunt.

**"Script" Sports Club.**—The following are further reports regarding the London Teams' Bowling Tournament: The "Eastern" visited the "South-Western" on August 16, when the Eastern won by 48 points to 29. The teams were as follows: *No. 1 Rink*—Eastern: Messrs. Abelson, Lawrence, Styles, and Keith; South-Western: Messrs. Monaghan, Breese, Fairlie, and Boyes. *No. 2 Rink*—Eastern: Messrs. Hatfield, Coulton, Wood, and Wilson; South-Western: Messrs. Emmerton, Goy, Garton, and Kingzett. The sides were fairly evenly matched until the concluding stage, when the Eastern skippers put on points. —The "Western" visited the "South-Eastern" on August 16, when the Western won by 44 points to 40. *No. 1 Rink*—Western: Messrs. Roe, Nicholson, Wilkinson, and Widgery; South-Eastern: Messrs. Sayers, Wing, Foulsham, and Winter. *No. 2 Rink*—Western: Messrs. Fellwell, Procter, Hamilton, and James; South-Eastern: Messrs. Milner, Corral, Seddle, and Ralph. On No. 2 rink the game was very closely contested, the score after the nineteenth lead being 19 all; the South-Eastern then secured six more points.

**Sheffield Medical Herbalists.**—At the invitation of Mr. Herbert R. G. Skelton, the Secretary of the Sheffield and District Branch of the National Association of Medical Herbalists, the members of the Branch visited his botanical garden, where many medicinal herbs were in full bloom, including *Scutellaria lateriflora*, *Stachys Betonica*, *Sambucus Ebulus*, *Saponaria officinalis*, *Teucrium Scorodonia*, *Eupatorium Cannabinum*, and others. Great interest was taken in the *Rheum palmatum*, the flower-stalk of which was over 5 ft. high. An interesting discussion took place on the properties and uses of the various herbs. Mr. Skelton also gave a description of the method of collecting and drying herbs, taking the members to one of his drying-rooms, where herbs were being dried. At the conclusion a hearty vote of thanks was accorded to Mr. Skelton.



## Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental cutlays prevent retail buyers purchasing at the market prices quoted here.

### 42 Cannon Street, E.C. 4, August 23, 5.30 p.m.

LITTLE animation characterises the markets taking them in the aggregate. Pharmaceutical chemicals are extremely quiet all round, orders being mostly hand-to-mouth, with practically no changes. Saccharin continues to be badly wanted, and the scarcity in cream of tartar continues acute. Menthol is less active, but is dearer on the week. There has been a fair amount of quiet investment buying in certain lines, imports of which are precarious; these include Japanese refined camphor and star anise and cassia oils. Lemongrass is firmer. Sicilian essential oils are all quiet. Persian opium is now at a fancy price, stocks being in the hands of one holder. Manufacturing and druggists' cinchona sold at higher prices at the London auction. Cloves and shellac are weaker; peppers firmer. Seeds are all firm, especially Moroccan, many of the arrivals being in transit to the United States. Outward freights to the U.S.A. are now on a much more reasonable level, and business should be stimulated thereby, but scarcity of stocks on the spot is the chief drawback.

Higher	Firmer	Easier	Lower
Anise oil, star	Canary-seed	Citric acid	Honey
Benzoin	Gentian	Cloves	Shellac
(thirds)	Lemongrass	Tartaric acid	
Cassia oil	oil	Turpentine	
Cinchona	Peppers		
(auction)	Senna (Tinn.)		
Cinnamon			
Coriander-seed			
Cream of tartar			
Croton-seed			
Guaiacum			
Menthol			
Opium (Pers.)			
Witch-hazel			
ext.			

### Cablegrams.

NEW YORK, August 17.—Business in drugs is quiet. Hydrastis (golden seal) is lower at \$5.25 per lb. Senega has been advanced to 63c. Copaiba is steady at 90c., and cascara sagrada is firmer at 12½c. per lb.

NEW YORK, August 23.—Business in drugs is fair. Menthol has advanced to \$2.95 per lb., and jalap to 14c. per lb. Taraxacum is also dearer at 35c., and senega at 68c. Buckthorn-bark is higher at 22c., and stramonium-leaves are also higher at 23c. per lb. Guarana is cheaper at 90c., and benzoate of soda has been reduced to \$2.75. Morphine has been advanced by \$1 per oz.

ANISE OIL (STAR) is dearer and in fair demand, with spot sales at from 3s. 7d. to 3s. 8d. for "Red Ship," and in some quarters 3s. 9d. is asked. In the drug-auction 20 cases of "Red Ship" brand were limited at 3s. 8d. per lb.

BALSAM PERU remains firm at 18s. 6d. per lb. net on the spot for genuine of B.P. quality.

BELLADONNA-ROOT is offered at from 5s. 6d. to 6s. per lb. on the spot.

CAMPHOR (REFINED).—Japanese has been sold more freely of late on spot at from 3s. 11d. to 4s. per lb. for 1-oz. tablets; slabs on the spot are quoted at 3s. 3d.

CANARY-SEED is firmer. Good Morocco has been sold at 88s., but holders are now asking 90s. per quarter.

CASSIA OIL has met with more demand at rising prices, sales including 80 to 85 per cent. c.a. at 5s. 3d. to 5s. 6d., and 70 to 75 per cent. c.a. at 5s. 3d. per lb. on the spot; August-October is quoted 5s. c.i.f.

CHAMOMILES are quiet, with fair white old-crop Belgian offering at 360s. per cwt. on the spot. In the drug-auction seven bales of fair Belgian of old crop were bought in at 380s.; a bid of 350s. is to be submitted for two bags. Two bales of German character (in prize) sold at 120s.

CINCHONA.—The auction to be held at Amsterdam on August 29 will consist of 812 bales and 434 cases pharmaceutical bark, weighing 81,275 kilos, and containing 2,247 kilos. quinine. The first-hand stock at Amsterdam on August 9 consisted of 6,381 packages Government and 11,833 packages private bark, or a total of 18,214 packages, including the first-hand packages to be offered on August 28 and 29. At the London auction on Tuesday, 266 bales Calisaya quill, mostly broken, were bought in at 1s. 10d.; 225 bales East Indian mostly sold at extremely high prices, chiefly Succirubra at from 1s. 1½d. to 1s. 2¼d. for natural stem chips and shavings—one lot 10d.; officinalis stem chips 8d., and quilly chips 7½d.; Ledgeriana stem chips 1s. 0½d. to 1s. 2¼d., branch 3½d. to 4¼d., and root 1s.

CITRIC ACID is unaltered at from 3s. 3d. to 3s. 3½d. per lb. on the spot. In the drug-auction a single keg of crystals sold at 3s. per lb.

CITRONELLA OIL is dearer on spot, sellers of Ceylon in drums asking 2s. 2d. per lb.

CLOVES have been quiet and rather easier, closing spot sellers of Zanzibar at 1s. 3d. per lb.

COD-LIVER OIL.—Our Bergen correspondent writes on August 13 that there is no business to report, and no quotation is available.

COLCHICUM-ROOT to come forward is offered at 7s. per lb.

COPPER SULPHATE.—There has been little animation for some time past, which is not surprising, as export licences were unobtainable over a considerable period even for France, but there has been no substantial weakening in the position, although values were recently rather easier at about 61l. 10s. f.o.b. Liverpool. We understand that a few permits have been just lately issued, thus confirming the views entertained a few weeks ago that additional facilities were about to be granted by the authorities. The tone now seems quite firm, the terms quoted varying from about 62l. to 63l. f.o.b. The pessimistic talk indulged in many quarters as to a further collapse in the price of metallic copper has undoubtedly tended to make export buyers very shy, while the dulness of business usually encountered at this period has been against anything like a revival in demand. It must not be overlooked, however, that the severe restrictions affecting the use of copper in this country make it rather more difficult for sulphate makers to secure supplies, while at the same time the outlook as regards the American production of the metal has aroused serious misgivings according to the latest advices available, while there has already been a big falling off in the output. The movement of raw supplies, moreover, from South American mining properties looks like being seriously interfered with by the withdrawal of British ships from the West Coast in order to meet urgent needs elsewhere. There does not seem much prospect of a material break in the price of sulphate, for the present at any rate, while makers' operations are being kept on a conservative scale. Last month's exports made quite a fair showing, although much below those of recent years, but the material accounted for was chiefly against old contracts entered into even prior to the export prohibition. Home trade is now lifeless, the price asked by most makers being about 61l. 10s. net, the fixed price of 50l. having been cancelled since August 15.

CORIANDER-SEED is dearer for new-crop Morocco. Sales of the first arrival have been made at 60s. to 61s., but it is difficult to buy now under 65s. per cwt. East Indian on the spot is unchanged at about 57s. 6d. per cwt.

CREAM OF TARTAR is becoming scarcer daily, and, if obtainable, is worth about 270s. per cwt.

CUMIN-SEED is steady at 67s. 6d. per cwt. for good old-crop Morocco and 72s. 6d. for new.

DIGITALIS-LEAVES.—New-crop English is on offer at reasonable prices. There is also a few tons of Spanish on the market, but buyers are lacking.

DILL-SEED is slow of sale, and is quoted 50s. to 55s. per cwt. for rather dusty to good clean.

EPSOM SALT.—Druggists' of B.P. quality is offered at 23l. 10s. per ton.

FENNEL-SEED is quoted 50s. per cwt. for good Bombay.

FENUGREEK-SEED is firm at 41s. per cwt. for Morocco and 40s. for East Indian



FORMALDEHYDE to arrive is offered at 125s. per cwt.  
GAMBOGE.—A lot of 38 cases Siam was advertised for sale, but withdrawn prior to the auction.

GENTIAN.—The high freights and war-risk insurance are reflected in the higher prices asked in some quarters, 85s. per cwt. spot being asked.

GUM ACACIA is quiet on the spot, Kordofan sorts offering at 80s. and cleaned at 85s. per cwt.

INSECT-FLOWERS.—Closed Japanese offer at 165s. per cwt. on the spot.

LEMONGRASS OIL.—There are spot buyers at 5d. per cz.

LIQURICE-JUICE.—Stick continues extremely scarce, and the same applies to good quality of block juice, which is worth from 250s. per cwt. and upwards on the spot; there is plenty of stuff offering with a large percentage of insoluble matter.

LIQURICE-ROOT.—A new parcel of decorticated sticks is on the point of landing, but on account of the high freight owners ask 110s. per cwt.

LYCORODIUM.—Spot stock is fairly good, sellers quoting 5s. 6d.; demand quiet.

MENTHOL.—A fair business has been done both spot and forward, including sales of Suzuki at 13s. 3d. to 13s. 4½d., and for Kobayashi 13s. 6d. is wanted, at which sales have been made. To arrive, business has been done in Kobayashi for September-October shipment at 12s. 9d. c.i.f. In the drug-auction 10 cases of Suzuki brand were limited at 13s. 6d., a bid of 13s. 3d. being refused.

MUSTARD OIL.—Essential of genuine quality is quoted at 80s. per lb.

OILS (FIXED).—*Linsced* remains firm on the spot at 56l. 15s. per ton net naked. Official maximum prices, net naked, raw 58l., boiled 61l., and refined 63l. per ton. *Rape* steady; crude spot 66l., refined 71l., and edible 81l. per ton, net naked. *Cotton* firmly held. Crude spot 60l., refined soap oil 67l., edible 75l., and American refined 95l. per ton net naked. *Petroleum* firm. American spot 1s. 3½d. for ordinary refined, and water-white 1s. 4½d. per gal.

ORIUM.—With spot stocks of Persian practically all concentrated in the hands of one firm, the asking price of 10-per-cent. on Wednesday was 60s. per lb., with sales up to 55s. There is no Turkish on offer.

PEPPERMINT OIL.—A further advance has been made in the United States, and the spot quotation of bulk oil is now from 14s. 6d. to 15s. per lb. There is practically no demand so far as regards importers, but second-hands have made small sales at 14s. and over.

PEPPERS are rather firmer but quiet, the spot value of fair black Singapore being 11½d., Alleppy 11½d., and Tellicherry 1s. Singapore white on the spot is 1s. 0½d. rather buyers, and fair Muntok 1s. 1½d.

POTASH PERMANGANATE remains scarce at from 14s. to 14s. 6d. per lb. on the spot in small lots.

SACCHARIN is in active inquiry, but extremely difficult to find.

SCAMMONY-ROOT.—Mexican, testing 12 to 13 per cent., can be had at 85s. per cwt. on the spot.

SHELLAC is dull and lower, usual standard quality TN Orange offering at from 235s. to 237s. 6d. on the spot; sales of fine orange have been made at from 295s. to 300s., and blocky A C Garnet at 245s.

SODA CAUSTIC.—The demand continues very heavy, and a large business has been done for prompt, but especially forward delivery well into 1918. Spot stocks remain extremely small, and sales of 70 to 72 per cent. have been made at from 47l. to 50l. per ton from dealers' hands.

SOY.—As no Chinese is available recourse has to be had to Japanese, which has been selling recently at 50s. per cwt. net. The prospects for receiving further supplies of Chinese are remote in view of the Government attitude.

TURPENTINE has been quiet and easier, American on spot closing at 57s. 3d. per cwt.

WITCH-HAZEL EXT. has been steadily advancing in the U.S., and the equivalent value on the spot (London) is now about 13s. per gal. net in casks.

### London Drug-auctions.

Commercial Sale Rooms.

Mincing Lane, E.C., August 23.

At the monthly auctions held to-day business on the whole was quiet. Aloes was of little interest, no Cape being offered. Sumatra benzoin was dearer for good thirds, but other grades were neglected, as was Siam, which was in plentiful supply. Mangalore cardamoms of good quality were offered, but failed to attract attention. Cubebs were unaltered. Dragon's-blood was steady, and no Siam gamboge was offered. Sudan acacia gum sold at rather higher prices, and for honey, which was offered in large quantities, competition was poor on the average, and prices

declined about 2s. 6d. per cwt. Matto Grosso ipecacuanha was steady, and the anticipated rise has not yet materialised. Japanese oil of mint sold cheaply, and for native Jamaica sarsaparilla about previous prices were paid, a new lot of grey Jamaica being retired at much higher rates. Squill sold cheaply, while for Tinnevely senna the prices advanced about ¼d. per lb. Turmeric is quite neglected, and beeswax was quiet but steady. The following table shows the quantities of goods offered and sold:

	Offered	Sold		Offered	Sold
Aconite (Jap.) ...	16	1	Honey, Jamaica ...	536	182
Aloes—			St. Lucia ...	9	9
Socotrine ... (kgs.)	31	1	San Domingo ...	18	18
Zanzibar ... (cs.)	17	0	West Indian... (cks.)	127	5
Ammoniacum ...	1	0	Hops ...	25	25
Anise oil, star ...	20	0	Ipecacuanha—		
Anise, star ...	50	0	Cartagena ...	4	0
Anatto-seed ...	19	0	Matto Grosso ...	16	4
Apricot-kern. ...	17	0	Jalap ...	30	1
Balam tolu ...	28	0	Juniper berries...	233	0
Bayberry-bark ...	18	0	Kamala ...	5	0
Bella-lonna-root ...	14	0	Kava-kava ...	11	0
Benzoin—			Kola ...	3	1
Siam ...	31	2	Lime flowers ...	93	93
Sumatra ...	184	54	Liquorice-root ...	10	0
Boldo-leaves ...	11	0	Lobelia-herb ...	11	0
Bucbu ...	9	0	Lycopodium ... (cwt.)	10	0
Calamus-root ...	1	1	Menthol ...	10	0
Calumba ...	120	0	Mint oil (Jap.) ...	5	5
Cannabis ind.—			Myrrh ...	26	2
African ...	47	0	Nux vomica ...	128	0
Cantharides ...	21	1	Olibanum ...	105	0
Cardamoms ...	131	49	Orange-peel ...	96	0
Cascara sagrada ...	160	0	Orchella-weed ...	46	0
Cascarilla ...	2	0	Pichi-herb ...	10	0
Cascabw-nuts ...	63	45	Quince seed ...	4	4
Chamomiles ...	7	2	Rhatany...	51	0
Chiretta ...	28	0	Rhubarb (Ch.) ...	108	7
Cinchona ...	21	0	Rice-root ...	30	30
Citric acid ... (keg.)	1	1	Sarsaparilla—		
Cochineal ...	18	0	Grey Jam. ...	31	0
Condurango ...	50	0	Mexican ...	25	5
Coriander-seed ...	255	0	Native Jam. ...	21	14
Croton-seed ...	27	20	Scammony-root ...	520	0
Cubebs ...	7	0	Scurvygrass ...	1	1
Culvers-root ...	4	0	Senna and pods—		
Damiana-leaves ...	21	0	Alex. ...	4	0
Digitalis-leaves ...	103	0	Tinnevely ...	674	109
Dill-seed ...	171	0	Shellac ...	53	0
Dragon's-blood ...	11	3	Snake-root ...	7	0
Elder-flowers ...	12	12	Squill ...	71	10
Fennel-seed ...	50	0	Tragacanth ...	259	80
Gentian ...	10	10	Turmeric ...	709	0
Guaiacum ...	11	1	Valerian ...	12	12
Guarana...	2	0	Wax (bees)—		
Guinea grains ...	1	1	Chilian ...	78	0
Gum acacia ...	200	59	East Indian ...	38	0
Gurjun oil (drms)	42	0	Jamaica ...	27	1
Heubanc ...	108	0	Madagascar ...	13	13
Henna ...	100	0	Mombasa ...	2	0
Honey—			Morocco ...	4	0
Argentine ...	163	163	Mozambique...	2	0
Californian ...	130	0	Portuguese ...	16	0
Chilian ...	107	20	Spanish ...	15	0
Cuban ...	443	114	St. Lucia ...	3	0
Haiti ...	61	26	Wild-cherry bark	12	0

\* Sold privately.

ALOES.—No Cape offered, and privately they are practically unobtainable. A single keg of fair hard liver Socotrine ullaged sold at 90s. per cwt., the price for good kegs being about 100s. The exports from the Union of South Africa during May 1917 were nil, against 103,493 lb. (1,003l.) in May 1916. For the five months ended May 1917 the exports were 113,473 lb. (1,063l.), against 509,732 lb. (4,666l.) for the corresponding period of 1916.

BALSAM TOLU.—For 28 cases of fair unsorted, part softish and drossy quality, from 2s. 1d. to 2s. 2d. per lb. was wanted.

BENZON was dearer. A string of 50 cases good Sumatra thirds packed with medium-sized white almonds in regular streaks sold at from 6l. 2s. 6d. to 6l. 15s., and country-cut at 6l. 5s. Good fair seconds with small to bold almonds were bought in at 9l. 5s., and for four cases of cross-cut with barks sides and ends 7l. 10s. was paid.

BUCHU.—Only two bales offered, one consisting of yellowish round for which 5s. 6d. was wanted, the other being bronzy longs for which 4s. 3d. was wanted. Privately small lots of round offered at from 5s. 3d. to 5s. 6d., and ovals at from 4s. to 4s. 3d. There were no exports from the Union of South Africa during May 1917, the corresponding figures for May 1916 being 13,600 lb., valued at 2,175l. For the five months ended May 31, 1917, the total is 89,314 lb. (14,622l.), against 95,724 lb. (16,008l.) for the corresponding period of 1916.

CALAMUS-ROOT.—A single case of peeled (in prize) sold at 100s. per cwt.

CARDAMOMS.—The principal sale consisted of 41 cases



without reserve for account of whom it may concern, 22 cases going at from 1s. 8d. to 1s. 9d. for fair medium brown Malabar, and 19 cases of medium heavy greenish at 1s. 8d. to 1s. 9d. A new parcel of Mangalore was offered and mostly bought in, seven cases of extra bold pale selling at 5s. 3d.

**CASHEW-NUTS.**—A parcel of 68 cases had mostly been sold privately, for the remainder 70s. per cwt. was wanted.

**CROTON-SEED.**—A lot of 20 packages fair Ceylon sold at 75s. per cwt., being dearer.

**CUBEBES** are firm at 18l. per cwt. for fair partly stalky.

**DRAGON'S-BLOOD.**—Two cases of fair Singapore saucers sold at 7l. 10s., the remaining case having been sold privately.

**ELDER-FLOWERS.**—A lot of 12 packages (in prize) sold at 30s. per cwt.

**GENTIAN.**—A lot of ten cases ordinary thin (in prize) sold at 72s. 6d. per cwt.

**GUAIACUM.**—Dearer. A single cask of fine clean glassy lump sold at the extreme price of 4s. 6d., and for ten boxes of very common drossy 2s. 6d. was wanted.

**GUINEA-GRAINS.**—A single bag of this scarce seed sold at the extremely high price of 190s. per cwt.

**GUM ACACIA.**—A lot of 47 bags of small to bold amber and glassy Sudan sorts sold at 85s. per cwt., being dearer.

**GURJUN OIL.**—A lot of 42 drums was limited at 1s. per lb.

**HENBANE.**—A new lot of 100 bales of Egyptian was offered, upon which a limit of 350s. per cwt. had been placed.

**HONEY.**—It was difficult to make progress in auction, competition on the whole being poor, with prices showing an average decline of about 2s. 6d. per cwt. Cuban is very slow, as large stocks exist privately. Of Jamaica the chief sales were nice pale set in barrels, 32s. to 85s.; canary set, 81s. 6d.; yellowish set and setting, 75s. to 80s.; brownish to brown set, 76s. to 78s.; fair amber liquid, 81s. to 82s.; ordinary dark liquid, 77s. 6d. to 80s.; common dark, 72s. to 73s. Argentine, 163 packages offered and sold, including nice white set in tins and cases, 86s. to 87s.; barrels and casks, 78s. to 84s.; and kegs, 75s. Cuban, nice pale set, 80s.; yellow to yellowish set, 70s. to 75s.; ordinary brown set, 70s. Hayti, in casks, nice setting banana colour, 82s. 6d. to 87s. Chilean, brown set, 75s. (lying in Liverpool). San Domingo, 22 barrels common dark liquid, without reserve, sold at from 67s. to 68s. Californian, in cases, was obtainable at 95s. A good business has been done privately.

**HOPS.**—A lot of 25 packages (in prize) sold at from 40s. to 60s. per cwt.

**IRECAUANHA** was quiet but steady, two bales of fair lean Matto Grosso selling at 10s. per lb. Two bales of sea-damaged and slightly mouldy sold at 9s. 2d. to 9s. 7d., and for four bales of slightly mouldy a bid of 9s. 8d. is to be submitted to the owner. Cartagena was obtainable at 9s. 9d. per lb.

**JUNIPER-BERRIES.**—Four bags of fair sold at 32s. per cwt., and for a further lot of 152 bags 32s. was wanted.

**KOLA.**—Although scarce there were no orders, and a single bag only sold at 6d. per lb. for fair West Indian halves.

**LIME-FLOWERS.**—A lot of 93 packages (in prize) sold at from 30s. to 33s. 6d.; one lot at 45s.

**MYRRH.**—A new parcel of 36 bales offered, but the limits were too high to permit of business. Old-fashioned brown Aden sorts, slightly blocky, were retired at 11l., as also were mixed Somali sorts. Two cases of fair siftings sold at 6l. per cwt.

**OIL, MINT.**—A lot of five cases Japanese Kobayashi sold at 3s. 2d. per lb. Privately this is much below the spot price, 3s. 8d. being asked, and to come forward 3s. 6d. c.i.f.

**QUINCE-SEED.**—Four bags of fair Cape realised 2s. 5d. per lb.

**RHUBARB** was quiet, but steady, six cases selling without reserve at from 1s. 8d. to 1s. 9d. for medium to bold round, and flat Shensi, very wormy and spongy, with mostly three-quarters pale pinky fracture. Under usual conditions, for medium flat Shensi, with seven-eighths fair pinky fracture and one-eighth grey, 3s. 6d. was wanted, and the limit for Canton was from 2s. 6d. to 3s. 6d. For medium to bold flat High-dried, with three-quarters good pinky fracture, 1s. 8d. was the limit, and rough round ditto was held at from 11d. to 1s. 1d. For five cases of rough round medium-sized High-dried with three-quarters fair pinky fracture a bid of 11d. is to be submitted.

**RICE-ROOT.**—A lot of 30 bales (in prize) sold at 1s. 1½d. per lb.

**SARSAPARILLA.**—Of grey Jamaica a string of 31 bales offered, for which the price was evidently 3s. 9d.; there were no bidders. Privately some 30 bales of grey Jamaica recently landed have been disposed of at, it is said, 3s. 9d.

per lb. Of Mexican, 25 bales offered, and five sold at 1s. 5d. per lb. net. Native Jamaica was steady, 13 bales being disposed of at 2s. for dull yellow, and at from 2s. 2d. to 2s. 3d. for dull red to fair mixed colours.

**SENNA.**—Although the demand was quiet prices were rather firmer where business was done. Medium to bold greenish clean Tinnevely leaf sold at from 7d. to 7½d., fair medium greenish 5½d. to 6d., middling greenish 4½d. to 4¾d., and ordinary yellowish and sea-damaged 3½d. to 3¾d. Tinnevely pods sold at from 4½d. to 5½d. for fair to good.

**SQUILL.**—Ten bags of good pale sold at 55s. per cwt.

**TRAGACANTH.**—Fifty cases of Indian pale brownish sold at 90s. and 30 bales of brown at 71s. per cwt.

**VALERIAN.**—A lot of 12 packages fair Belgian or German sold at from 172s. 6d. to 193s. 6d. per cwt.

**WAX, BEES',** is quiet, but for spot supplies very full prices have to be paid privately. In auction 13 mats of Madagascar sold at 10l. 2s. 6d. per cwt. for fair brown, and for a single case of Jamaica 12l. was paid for good; there is plenty more available at from 11l. 15s. to 12l. Yellow Portuguese and yellow Spanish were bought in at 10l. 10s., also Chilean at 10l.

### Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the Ports of London and Liverpool:

#### To London

(August 11 to 17).

Acetanilide, 30 brls. 2 pkgs.  
Acetic acid, 80 cys. 65 brls.  
Ammon. ichthosulph., 20 cs.  
Ammon. persulph., 19 cs.  
Antim. reg., 278 tons  
Argol, 579 bgs.  
Argyrol, 1 cs.  
Baking-powder, 60 pkgs. 1,200 cs.  
Balsam peru, 10 cs.  
B. ritone, 2 cs.  
Benzoic acid, 50 kgs.  
Benzoin, 38 cwt.  
Benzonaphthol, 2 kgs.  
Benzyl benzoate, 2 cs.  
Bromides: potash 120 cs.; sodium, 20 cs.  
Cantharides, 10 cs. 25 bgs.  
Casein, 4,299l.  
Cassia lignea, 200 brls.  
Citric acid, 100 cks. 112 pkgs.  
Cobalt acetate, 22 brls.  
Coca-leaves, 25 brls.  
Cream of tartar, 38 pkgs. 44 cks.  
Creosote, 4 cs. 5 kgs. 48 cys.  
Damiana-leaves, 10 bgs.  
Dental goods, 4,269l.  
Drugs and herbs, 30 pkgs.  
Drugs, unrated, 4 cs. 20l.  
Dutch drops, 11 cs.  
Dyestuffs, various, 44 pkgs. 29 brls. 2 cks.; logwood ext., 76 brls.; myrabolans, 4,155 pkgs. 3,250 pockets; tanner's bark, 1,016 tons  
Formaldehyde, 150 brls.  
Galls, 200l.  
Glycerin, crude, 154l.  
Glycerin, dist., 168l.  
Glycerophosphates, 5 cs.  
Gums (cwt.): acacia, 600; copal, .52; olibanum, 150  
Heliotropin, 1 cs.  
Henbane, 24 brls.  
Henna, 100 brls.  
Hydroquinone, 23 kgs. 4 cs.  
Juniper-berr., 170 bgs.  
Lactic acid, 4 cs.  
Laurel-leaves, 182 brls.  
Lithopone, 2,720 cks.  
Magnesia, 218 pkgs.  
Manna, 10 cs.  
Menthol, 10 cs.  
Milk of magnesia, 214 pkgs.

Milk sugar, 300 cs.  
Mint oil, 10 cs.  
Myrrh, 49 cwt.  
Nuts and kernels (cwt.): arachis, 8,200; copra, 16,900; other sorts, 137  
Oils, essential, 301 pkgs. 284 cs. 37 dms.; anise, star, 50 cs.; eucalyptus, 10 cs.; synthetic oils, 22 dms. 46 cs. 3 brls.  
Oils, fixed: arachis, 3,450 cs.; castor, 850 cs.; coconut, unref., 645 pps.; fish, 1,500 cs.; seal, 50 cs.; seed, various, 2,977 cs.; shark, 500 cs.; soya, 1,300 cs.; sperm, 50 cs.; wood, 11,380l.  
Ointment, 292l.  
Papain, 7 cs. 1 box  
Paraldehyde, 4 cs.  
Perfumery, unrated, 38l.  
Petroleum jelly, 488 cs. 245 brls.  
Phenacetin, 10 cs.  
Phenalin, 10 pkgs.  
Phenazone, 1 cs.  
Phenolphthalein, 1 kg. 1 dm.  
Quince-seed, 4 bgs.  
Quinine, 116,200 oz.  
Quinine ethyl carb., 3 cs.  
Resorcin, 2 kgs.  
Rhubarb, 18 cs.  
Rosin, 475 cks. 1,026 brls.  
Salol, 10 cs.  
Saltpetre, 3,000 cwt.  
Sandalwood, 579 bgs.  
Sarsaparilla, 10 brls.  
Seeds: anise, star, 10 cs.; castor, 7,553 bgs.; cotton, 1,845 tons; lin, 638 bgs.; mustard, 400 cks.; sesame, 6,445 bgs.  
Senega, 10 brls.  
Soda salicylate, 7 cwt.  
Sponge, 117 brls.  
Starches (cwt.): dextrin, 48; farina, 500; maize, 8,075; potato flour, 4,000; rice, 100  
Stovaine, 1 cs.  
Stramonium, 7 brls.  
Talc, 370l.; mineral white, 630l.  
Tallow, unref., 3,820 cwt.  
Tartar, 16 brls.  
Thorium nit., 6,805l.; cerium nit., 6l.  
Wax, not described, 34 cs. 238 bgs.  
Wax, paraffin, 9,585 cwt.

Turmeric, 1,109 bgs.  
Wild-cherry bark, 3 brls.  
Zinc oxide, 1,307 cks.  
Zinc stearate, 4 brls.  
  
To Liverpool  
(August 13 to 18).  
Acetic acid, 55 brls.  
Alcohol, wood, 252 dms.  
Araroba, 61 cs.  
Argol, 74 bgs.  
Bromides, 8 cs.  
Bronze-powder, 54l.  
Calcium acet., 2,779 bgs.  
Cassia lig., 100 cs.  
Chemicals, unrated, 99 brls.  
Citronella oil, 6 dms.  
Dental goods 51l.  
Drugs, unrated, 6 cs. 282 pkgs. 20 bxs.  
Dyestuffs, unrated 25 brls. 2 cs. 40 bgs. 3 dms.; chestnut ext., 1,929 cks.; gambier, 265 cs.; hematine cryst., 155 brls.; hemlock ext., 200 brls.; indigo, 11 cs.; lactic acid (tanning), 17 brls.; logwood, 20 tons; logwood ext., 335 brls. 698 cks.; myrabolans, 5,999 pkgs., 2000 pockets; tanning ext., 40,184 bgs.  
Formaldehyde, 84 brls.  
Gum chicle, 20 brls.  
Gum damar, 100 cs.  
Isinglass, 45 brls.  
Liquorice-paste, 75 cs.  
Nuts and kernels (bgs.): arachis, 141; copra, 3,735; palm-kernels, 31,428  
Oils, fixed: arachis, 292 cks. 3,200 cs.; castor, 500 cs.; fish, 1,500 cs.; palm, 1,070 cks. 128 butts; soya, 3,000 cs.; whale, 700 tons 8,765 brls. 2,176 dms.; wood, 30 brls. 100 dms. 227 cks.  
Petroleum-jelly, 100 brls.  
Potash carb., 31 cwt.  
Rosin, 744 brls. 25 cks.  
Salicylic acid, 39 brls.  
Seeds: annatto, 136 cs.; cotton, 533 bgs.  
Soda ash, 240 brls.  
Soda bichrom., 20 cks.  
Soda molybdate, 16 cwt.  
Starches, 12,870 bgs.; farina, 2,200 bgs.  
Talc powder, 1,308 bgs.  
Wax, bees', 3 cs.  
Wax, paraffin, 400 brls. 50 cs. 5,571 bgs.  
Wax, vegetable, 150 cs.



## Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

**Platinum Substitute.**—Dr. M. Neumann ("Chemiker Zeitung") suggests the use of a thermo-element of nickel and nickel-chromium wire in place of the platinum used in pyrometers. This has been found to be efficient up to 1,100° C., but for higher temperatures no substitute for platinum can be suggested.

**Humogen.**—Dr. E. J. Russell ("Journal of the Board of Agriculture") reports on field experiments with humogen on farm crops, and states as a result that the agricultural value of humogen is no greater than that of any other organic manure with the same nitrogen-content. The claims made for it are considered not to be substantiated.

**Lead Isotopes.**—An interesting discussion has taken place in "Nature" between Professor F. Soddy and Dr. Arthur Holmes regarding the lead which is considered as the end-product of thorium and uranium. Deductions are being made as to the age of the different minerals according to the proportions of lead they contain. The curious fact is noted that the atomic weight of the lead obtained from various sources differs, the products being considered to be isotopes.

**Proflavine** is 3,6-diamino-acridine sulphate, whilst acriflavine (formerly called flavine) is 3,6-diamino-10-methyl-acridinium. Proflavine represents an earlier stage in the production of acriflavine, hence it would be cheaper in use. The solubility of proflavine is similar to that of acriflavine in normal and hypertonic NaCl solution, and along with 0.5-per-cent. sodium citrate; the addition of alkali to the neutral solution must be avoided, however, in the case of proflavine, as this causes precipitation. Clinical observations indicate that proflavine has hæmostatic action.

**Glucose in Urine.**—Mr. G. C. Parnell, M.R.C.S. ("British Medical Journal," I., 1917, p. 842), refers to a method of estimating the percentage of glucose in urine which is adapted for clinical purposes. The method consists in boiling equal volumes of liquor potassæ and diabetic urine for eight or ten seconds and comparing the colour produced with standards obtained from normal urine containing known quantities of glucose treated in the same manner. A set of four glasses tinted to correspond to definite percentages of glucose is now made for the purpose, and the method has been found to give accurate results in the minimum of time.

**New Essential-oil Ketone.**—Asahina and Yoshitomi have examined the essential oil of *Artemisia annua*, especially with reference to the ketone which was detected in the oil by Imada, but not isolated by him in a state of purity. They found ("Jour. Pharm. Soc. Japan," 424, 1917, 1) that the semicarbazone of the ketone, which they name artemisia-ketone provisionally, melts at 95°-96°. This compound was treated with concentrated hydrochloric acid under a reflux condenser for six hours. The regenerated ketone was found to have the formula  $C_{10}H_{16}O$ , and to have the following characters: Specific gravity at  $\frac{14}{40}$  = 0.8906; refractive index at 18° = 1.4695; it is optically inactive. This ketone yields a tetrahydro-derivative, which forms a semicarbazone melting at 134°-135°. Lævo-camphor was also found present in the oil.

**Effect of Poisons on Fish.**—Ricard and Barral have recently devised a simple method of ascertaining rapidly and easily whether water has been poisoned ("Nature," No. 2,487, p. 351). It consists in placing a few fish—blay, gudgeon, etc.—in a jar filled with the water to be tested. Two drops of nicotine per litre kill the fish in less than a minute; two drops of conine paralyse them in six minutes and kill them in eight; 1 decigram of solanine kills in one and a half hour, the same quantity of cocaine in one hour, and the same quantity of stovaine in ten minutes. One milligram of aconitine kills in three and a half hours; twenty drops of aniline in one and three-quarter hour; 7 milligrams of digitalin only take effect in four hours. Veratrine does not appear to have any effect; 1 decigram of potassium cyanide kills the fish in two minutes; 2 decigrams of corrosive sublimate in ten to twelve minutes; 2 grams of lead acetate in five hours; 5 grams of zinc sulphate in two hours; 2 grams of copper sulphate in forty-five minutes; and 35 centigrams of picric acid in five hours. On the other hand, the fish do not appear to be inconvenienced by morphine, cantharidine, atropine, pilocarpine, hyoscyamine, scopolamine, or arsenical salts. Water in which fish die in less than four hours should therefore be considered as dangerous.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

### Pricing Insurance Prescriptions.

SIR,—I am, I believe, one among many who feel that the system in vogue *re* the pricing of National Health Insurance prescriptions is very much at fault. Under the present rule, as accounts are never settled in full, it is impossible to balance them and show a profit or loss. A far better and fairer system could be adopted if chemists were given a workable scale of prices and were allowed to price each script as received at current prices, *plus* a fee for dispensing and establishment charges. These ready-priced scripts could be forwarded monthly, and could be checked by the official pricers, and should there be any discrepancy the chemist should be informed in any case, either *plus* or *minus*, and be able to correct his account thereby. This system would enable dispensers to form a correct estimate of the value of work done, and they would thereby know if they had reaped a profit or sustained a loss. An official price-list is issued periodically, but for what reason is unknown, as dispensers are forbidden to price scripts before sending them to the prescription office.—Yours faithfully,  
Framlingham. HERBERT SARA.

### The Returned Script.

SIR,—I had occasion recently to interview a Pricing Bureau representative in order to obtain some light on the why and wherefore of the mysterious methods of the Bureau. The points raised and discussed might be of interest. The chief fact to remember is that all Pricing Bureaus work on systematic lines. If anything that you may do does not fit in with the particular system in vogue, well, it's unfortunate for you.

(1) *Errors of Arrangement in Doctor Batches.*—Here the system is in full blast. Nothing can possibly save postponement of payment if you mix Jones and Smith.

(2) *Information as to Costs.*—Trouble had arisen here. Some chemists took the view that the Bureau existed to price scripts. But the Bureau pointed out that the actual net cost of, say, proprietary preparations contained in prescriptions varies between chemist and chemist. Hence the need for contractor's interpretation. From chemist's standpoint it was suggested that such information in the case of proprietary capsules and such-like would not vary between individuals nor from month to month, and might well be indexed.

(3) *Items on Repeat Prescriptions.*—One chemist had noticed a ease where an additional dressing had been missed, and attention was called to the matter.

(4) *Prescriptions Disallowed.*—Some amount of discussion ensued round these. Apparently a broad interpretation is taken of the drug section, but a very narrow view in respect to dressings. The bone of contention was "capsicum tissue." The only safe course is for the chemist to charge for any dressing or appliance not precisely indicated in the Tariff. Note that in such case the item should be crossed off before prescription is forwarded, otherwise latter is returned in order that contractor may be aware of course taken.

(5) *Alterations to Prescriptions.*—The Bureau takes the view that alterations must be in doctor's writing or initialled by him. Several prescriptions were viewed. One ordered hexamine gr. 5 in 8-oz. mixture. The prescriber stated on the telephone that a 5-grain dose was intended; it was so dispensed. The prescription was returned to the chemist, but the doctor stated he had no time to call and alter. Obviously the only course to take if the prescription is incomplete, vague, or absurd is to throw the onus on the doctor, and not dispense it. I understood the Commissioners agreed that that procedure is correct.

(6) *Poison-containers.*—Considerable difficulty occurred here over a number of repeats returned. The Bureau, I learned to my astonishment, has received instructions to query a repeat where an additional container is given to patient. I claimed that if a contractor indicated that a second or any additional poison-bottle was supplied to a patient he had done his whole duty. I had already ascertained actual facts—that for good and sufficient reasons two and three bottles had been used by some persons. The Bureau wished these reasons stated, and I refused to admit



their claim to explanations. The essential point here is, To whom does the bottle belong? Obviously the patient. The bottle having been supplied at cost-price to the account of the Insurance Committee, the Commissioners now wish to economise on any possible repeats at the expense of the chemist's labour in tracing the history of any such.

To sum up, the representative of the Bureau stated that the bulk of the difficulties would disappear with care on the part of the chemist to details of stamping and arrangement and the attaching of explanatory notes. It appeared to me, however, that the system of the Bureau ensured handing over to the other fellow all the difficulties and doubts, however trivial and insignificant. These cast-iron methods do not lend themselves to reciprocal consideration, and much unnecessary friction is engendered. The present remuneration does not, in my opinion, run to unnecessary sermons on historical details concerning such things as the life-history of the container.—Yours faithfully,

PANEL CHEMIST. (188/33.)

#### State Pharmaceutical Committees.

SIR,—There is an interesting commentary on my remark a few weeks back that the Pharmaceutical Committees need rejuvenating. I am told that at a London meeting called to consider the terms of the Drug Tariff for 1918, at which over 300 panel pharmacists were present, they not only turned down the recommendations of the Local Associations Executive on the question of terms, but the Pharmaceutical Committee also. It is reported they went even farther and demanded that one independent man from the audience, not on the Pharmaceutical Committee, should be appointed a delegate to represent them. Surely we cannot afford to neglect the writing on the wall. SIGMA. (110/57.)

### Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

#### Lady Commercial Travellers.

Retail (99/16), writing in regard to lady commercial travellers, suggests that "there are plenty of men returned from the war—men who have fought for their country—whom these posts would suit." He adds: "I cannot understand any firm wanting to put women on the road instead of men, unless it is for the sake of cheapness."

#### Theophrastus' Drugs.

Canus (57/20) writes: "Your notes on Theophrastus and thapsia remind me of the wonderful list of plants contained in the prosodical vocabulary in Dr. J. Pereira's 'Selecta e Præscriptis,' which excited my wonder in my youthful student days. Has anyone ever tackled the list and explained such of the names as are but little heard of—e.g., acinula, æthiopsis (a herb), cataputia? Some of these to this day I have not had time to elucidate. I often wish Pereira had left behind him more copious notes from the store of knowledge on out-of-the-way subjects which he possessed."

#### Potato Flour.

"The following method of preparing potato flour at home may be of interest to C. & D. readers who have any potatoes to spare at the end of the season: Thoroughly scrape the potatoes clean, then pass through a vegetable-grater and allow the gratings to macerate in a plentiful supply of water for three or four days. This liquid should then be strained through a linen cloth and the soft mass allowed to dry in a current of air. When thoroughly dry it should be sifted to remove the coarse particles. The sifted powder is potato flour, which is wholesome and very nourishing, and may be used in the same manner as wheat flour. The potatoes must not be new season's, but are better if used when ripe at the end of the season."—L. H. H. (91/19).

#### Hop Substitutes.

Mrs. Grieve, The Herb Nursery, Chalfont St. Peter, Buckinghamshire, writing in regard to the world's hop-crops (C. & D., August 18, p. 54), calls our attention to several plants which might be employed as a substitute for hops in beer. The following are extracts from a series of pamphlets issued by Mrs. Grieve:

BROOM (*Cytisus Scopyrius*).—The tender green tips have been employed, together with hops, in brewing.

BUCKBEAN (*Menyanthes trifoliata*).—The plant is odourless, but the intense bitterness of the leaves has led to their being substituted for hops in brewing, and large quantities of them are collected for the purpose of adulterating beer. It is, however, quite a harmless adulteration. Two ounces of dried leaves are said to be equivalent to one pound of hops.

WOOD SAGE (*Teucrium Scorodonia*).—In taste and smell this species resembles hops. It is called "ambroise" in Jersey, and used there and in some other districts as a substitute for hops. It is said that when this herb is boiled in wort the beer becomes clear sooner than when hops are made use of, but that it is apt to give the liquor too much colour.

WORMWOOD (*Artemisia Absinthium*).—With the exception of rue is the bitterest herb known, but is very wholesome, and is often in request by brewers for use instead of hops.

YARROW (*Achillea Millefolium*).—In Sweden it is called "field hop" and has been used in the manufacture of beer. Linnaeus considered beer thus brewed more intoxicating than when hops were used.

### Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

Staffs (104/2).—You must pay your share of your assistants' Health Insurance contributions while they are on holiday if you pay their salaries during that period.

H. & Co. (104/11).—You will be liable to prosecution under the Pharmacy Acts if you keep open shop for the sale of poisons, even though you style yourselves "manufacturing chemists and wholesale druggists."

J. B. D. C. (109/22).—"DIGESTIVE TABLETS."—This title does not make the goods to which it is applied liable to medicine stamp-duty, but if associated with ailments or parts of the body liability is incurred. "Wind," "sour stomach," "acidity," "flatulence," "heartburn," are forms of indigestion, and the use of these terms on the label will make the tablets liable.

R. S. (60/8).—SALE OF COCAINE.—You are allowed to supply cocaine to anyone legally entitled to buy it—"registered medical practitioners, dentists, veterinary surgeons, and pharmacists." You must not supply to unregistered dentists any solid cocaine or any solution containing more than 1 per cent. of cocaine. All sales must be registered in the cocaine register, whether to qualified or unqualified persons.

J. A. B. (102/63).—REGISTRATION OF BUSINESS NAME.—You will see from the section quoted in the C. & D., August 18, p. 55, that it is not necessary to register when the addition to the name merely indicates that the business is carried on in succession to a former owner. As, however, it will be a convenience to you to be able to use up your predecessor's labels and stationery, you will be safer to register, especially as the fee is only a small one.

J. W. (3/8).—BLAUD'S PILLS are treated by the Board of Customs and Excise as coming within the exception "known, admitted, and approved remedies," and may therefore be sold by apothecaries, chemists, and those who have served a regular apprenticeship, without bearing medicine-stamps. This provision does not apply to persons who are not included in the descriptions mentioned above, except in the case of limited companies carried on in conformity with the Pharmacy Act, 1908.

Puzzled (107/70).—EARLY CLOSING OF SHOPS.—You cannot keep your shop open legally after 8 P.M., but you are allowed to sell "medicine or medical or surgical appliances" after that hour, "so long as the shop is kept open and lighted only for such time as is necessary for serving the customer." The fact that you have an off-licence for beer does not allow you to keep open shop after 8 P.M. for the sale of medicines. You should follow the practice of the Shops Act, and cover up the pharmaceutical part of the business.

J. H. (80/6).—As you are not an "authorised person" within the meaning of the Cocaine Order, but a dispenser in an institution, you should apply to the Home Secretary for general or special permit according to Section 11 of the Regulation. The medical men in the institution must carry out the formalities described under (b), and you as the dispenser will be required to keep a cocaine register.

S. E. D. (97/25) occupies one of four houses in a private road. Water is provided by a company, and "S. E. D.'s" supply is very poor. He has replaced the lead pipe between the house and the stop-cock, but has derived no benefit, as the iron pipe between the stop-cock and the main is, he finds, "furred up." The company maintains that the iron pipe belongs to "S. E. D." Can he compel them to replace the pipe? [In order to make sure of his position, "S. E. D." must look at the special Act of Parliament under which the company in question is constituted. It is, however, probable that the iron pipe belongs to "S. E. D." and that the company cannot be compelled to replace it.]



## Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

**Credo (34/19).**—The MANUFACTURE OF PORCELAIN LABORATORY-WARE was dealt with recently by Mr. Henry Walkin in a paper read before the Society of Chemical Industry. There are many difficulties in the manufacture which even those accustomed to make porcelain ware have not easily overcome, but products equal to those made abroad are now being made in this country. The outlines of the process of manufacture are as follows: The materials generally used in hard-paste porcelain bodies are ball clay, china clay or kaolin, quartz or flint, felspar, Cornish stone, pegmatite, sometimes a very small proportion of lime, and sometimes ground broken porcelain. The materials are weighed out in their proportions, and intimately mixed by using a large excess of water. The mixture is passed over sieves to abstract any coarsely ground materials, and passed through a trough containing magnets to eliminate any particles of iron either present in the clay as pyrites or other magnetic forms, also from the wearing of the bearings of the machinery. It is then passed through the filter-presses, from which, when the excess of water has been removed, it is taken as oblong sheets of plastic clay approximately 6 ft. long by 2 ft. wide by  $\frac{3}{4}$  in. thick. These sheets are then rolled up for convenience of removal and passed through a pug-mill, where the clay is made homogeneous, the air driven out, and extruded as a continuous mass of plastic clay of a square section about 6 in. and cut off in convenient lengths. Casting consists of pouring the slip or body mixture into moulds made of plaster of Paris, and allowing it to remain there for a definite period, when the surplus is emptied out and the article is dried and removed from the mould. The thickness depends upon the length of time the slip is left in the mould. When the articles are made they are placed in fire-clay receptacles, called saggars, which are arranged one upon another in the ovens for firing. When the oven is filled it is fired. The Chinese and Continental manufacturers invariably give their clay ware an easy or low temperature treatment in the first firing, which not only facilitates the subsequent dipping process, but also gives the glaze when fusing upon the surface of the biscuit during the second fire a better chance of assimilating itself to the body. The English manufacturer, on the contrary, invariably gives the highest degree of temperature during the first fire. The ware is then emptied from the saggars, carefully inspected, faulty goods eliminated, brushed to remove any particles of sand, and passed on to be dipped, which means the glazing process, which consists of dipping the articles in a mixture of compound silicates of alumina, potash, calcium, etc., ground to a fine powder and held in suspension in water, or in ground felspar and lime as practised by the Chinese. The glaze when dry is removed from such parts as needful to prevent the pieces sticking to each other during the fusion of the glaze in the next or second firing operation. Another method of separation is by the use of stilts and spurs of various designs. To keep the goods true in form in the second firing is one of the most difficult problems of the manufacturer of chemical porcelain. The firing of the oven is usually taken to a higher temperature than that of the first or biscuit firing, and takes about fifty to sixty hours or more to complete. The judgment of the temperature reached during the operation is effected by various pyrometers, including electrical pyrometers, radiator pyrometers, Wedgwood pyrometers, pyro cones, recorders, etc. When fired there is still another operation—namely, that of removing any stray bits of sand, saggars dirt, etc., adhering to the glaze, which is accomplished on the principle of the glass-cutters' operation. The last and final operation is selection and packing.

**Sugar (107/69).**—You will find a list of books on botany in the *C. & D.*, August 18, p. 45. The first book, Edmonds' "Elementary Botany," will be suitable for one beginning the study.

**J. H. (107/64).**—We think you are referring to Walters' "Cyclopaedia of Household Medicine," which was published by Sonnenschein some twenty years ago. It is out of print now.

**H. S. (99/42).**—DRIVING AWAY EARWIGS.—The earwig-pest in soldiers' huts is best treated by applying paraffin or naphthaline dissolved in benzene to the cracks in the match-boarding. There is, however, the disadvantage that these applications increase the risk of fire and also leave behind persistent odours.

**H. K. J. (110/49).**—You do not state the origin of the pile-powder, which it is necessary for us to know as we do not wish to assist anyone to imitate proprietary articles.

**T. W. H. (104/11).**—The paste seems to require a preservative; salicylic acid or formalin is the most suitable for the purpose.

**W. P. (103/43).**—RHEUMATIC TABLET.—The formula for which you ask is as follows:

Acetylsalicylic acid	...	...	100 parts
Starch	...	...	15 parts

Compress into tablets.

Dose: Five to 15 gr.

**Emollient (107/37).**—Formulae for glycerin-substitutes for toilet use were given in *The Chemist and Druggist Diary*, 1917, p. 369. We think you should make it clear to your customers that you are employing a "war emergency formula," so that you will not destroy the goodwill of the proprietary article in case the new formula is not so acceptable.

**S. M. (104/35).**—(1) The last edition of "Pharmaceutical Formulas" was published in 1914; the price is 10s. through most wholesale houses. (2) COMPRESSED TOILET-POWDER.—The powder is mixed with a small quantity of weak tragacanth mucilage until slightly moist, and is then compressed in a metal mould made on the same principle as hand tablet-machines.

**J. G. (110/39).**—PICCALILLI OR INDIAN PICKLE.—The following formula was given some years ago in the *C. & D.*:

Take a hard white cabbage (sliced), two cauliflowers (pulled to pieces), some French beans, one stick of horse-radish (sliced), twenty-four small white onions, and twelve gherkins, and cover them with boiling brine. The next day drain the whole on a sieve, put into a jar, and add curry-powder or turmeric 2 oz., garlic, ginger, and mustard-seed of each 1 oz., capsicums  $\frac{1}{2}$  oz.; fill up the vessel with hot pickling-vinegar, bung it up close, and let the pickle stand for a month, with occasional agitation.

The spices can be varied, if required, by including all-spice, cloves, long pepper, black pepper, etc.

**R. L. (104/43).**—The method of using sodium sulphocarbonate as an insecticide was described in the *C. & D.*, June 9, p. 43, to which you should refer.

**P. J. H. (107/53).**—THE FATAL DOSE OF OXALIC ACID is thus referred to in Murrell's "What to Do in Cases of Poisoning":

Death from a drachm in a boy of sixteen; recovery from an ounce and a quarter with prompt treatment. Half an ounce of salt of sorrel proved fatal.

**R. S. (107/62).**—MANUFACTURE OF CAPSULES.—Some years ago the process of making gelatin capsules was described in detail in the *C. & D.* This information has since been incorporated in "The Art of Dispensing," and forms the most complete description of the method which has been published.

**Copper-beech (104/16).**—The fruit you send is that of *Prunus pissardi*, which has leaves resembling the copper-beech in colour. The fruit, which is quite edible, is only produced when the tree attains its mature age. This species is a native of Persia, and was introduced into this country in 1881.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Aug. 15, 1867.

### Foreign Medical Degrees.

From the Address in Medicine delivered by Sir Dominic Corrigan before the British Medical Association:

"It is further to be observed with regard to some of the German universities that the same university gives two kinds of degrees—one on a *vivâ voce* examination, the other *in absentia*. This is abuse enough, but there is another ingenious subdivision of the *vivâ voce* examination. To anyone of honest intelligence the phrase *vivâ voce* examination would convey that the candidate presented himself at the seat of the university and was examined there by its authorities. Not at all, for in one of the documents in my hands the applicant, residing within this kingdom, was referred for the *vivâ voce* examination—to whom, do you suppose?—to one of their own graduates in the neighbourhood of the applicant, and the applicant was informed that on passing such *vivâ voce* examination and payment of 32l. he was to have his degree."



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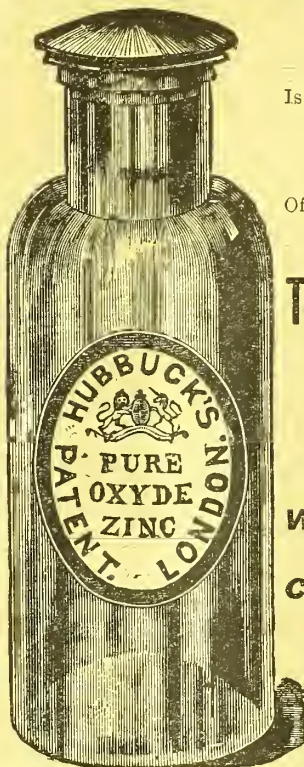
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Formaldehyde, 40%, 4 cwt. barrels @ cwt.; 7 lbs. @ 1½ lb.  
Fuller's Earth, fine powder or lump, 5 cwt. @ 9/- cwt.; 1 cwt. @ 10/-.

Galla Cærul. Pulv., 7 lbs. @ 2/- lb.  
Gamboge, English Ground, 1 lb. @ 9/6 lb.  
Ginger, English Ground, 1 cwt. @ 15/- cwt.; 7 lbs. @ 11d. lb.  
Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.  
Glycerin. Opt. D.D., 1.260 P.B., @ cwt.  
" Glycerin. Acid. Boric, P.B., 6 lbs. @ lb.  
" " Acid. Carbolic, P.B., 6 lbs. @ lb.  
" " Acid. Tannic, P.B., 6 lbs. @ lb.  
" Belladon. B.P.C., 6 lbs. @ lb.; 1 lb. @ lb.  
" Glycerin. Boracic, P.B., 6 lbs. @ lb.  
" " Pepsin. Acid, P.B., 1 lb. @ lb.  
" " Plumbi Subacet., P.B., 6 lbs. @ lb.  
Gualacol Carb., 1 lb. @ 16/- lb.  
Gualacol, pure, 1 lb. @ 13/- lb.  
Gum Acacia sorts, 3 cwt. @ 87/6 cwt.; 1 cwt. @ 90/- cwt.; 7 lbs. @ 11d. lb.; English Ground Powder, No. 1, 1 cwt. @ 140/- cwt.; 7 lbs. @ 1/6 lb.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/2 lb.  
Gum Benzoin, Sumatra, 84 lbs. @ 1/9 lb.; 7 lbs. @ 1/11 lb.  
Gum Catechu Nig., English Ground, 1 cwt. @ 105/- cwt.; 14 lbs. @ 1/- lb.  
Gum Guaiac, 1 cwt. @ 1/6 lb.; 28 lbs. @ 1/8 lb.  
Gum Juniper, 14 lbs. @ 1/- lb.  
Gum Thus Elect., 2½ cwt. @ 48/- cwt.; 28 lbs. @ 52/- cwt.  
Gum Tragac. Elect., English Ground, 7 lbs. @ 10/- lb.; 1 lb. @ 11/- lb.

\*Heading (Frotting Ess.), 5 lbs. @ 1/9 lb.  
Heliotropine, 1 lb. @ 30/- lb.  
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 52/6 cwt.  
Hexamethylenetetramine, 7 lbs. @ 4/9 lb.; 1 lb. @ 5/- lb.  
Honey, Pale Set, 28 lbs. @ 1/1 lb.  
Hydrargyrum, P.B., 10 lbs. @ 7/6 lb.; 1 lb. @ 7/10 lb.; Ammon., 28 lbs. @ 8/4 lb.; c. Creta, 28 lbs. @ 2/10 lb.; Iodid. Rub. 28 lbs. @ 12/8 lb.; Oxid. Rub., 28 lbs. @ 8/4 lb.; Perchlor., Lump, 28 lbs. @ 8/1 lb.; Subchlor. 28 lbs. @ 7/10 lb.; Sulph. c Sulph., 28 lbs. @ 7/4 lb.; 7-lb. quantities 1d. lb. extra.  
3-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.  
Hydrokinone, 1 lb. @ 16/- lb.

Ichthylol Ammon. chemical equivalent: Ammon-Ichthiosulphonas, B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.  
Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/10 lb.  
" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/8 lb.  
" Bucbu Conc., 1 to 7, 6 lbs. @ 3/1 lb.  
" Calumbe Conc., 1 to 7, 6 lbs. @ 1/4 lb.  
" Caryoph. Conc., 1 to 7, 6 lbs. @ 1/5 lb.  
" Cascarilla Conc., 1 to 7, 6 lbs. @ 1/7 lb.  
" Cinchona Acid, 1 to 7, 6 lbs. @ 1/11 lb.  
" Gentiana Co., 1 to 7, 6 lbs. @ 1/4 lb.  
" Quassia Conc., 1 to 7, 6 lbs. @ 1/- lb.  
" Rbel Conc., 1 to 7, 6 lbs. @ 1/10 lb.  
" Rosa Acid. Conc., 1 to 7, 6 lbs. @ 2/11 lb.  
" Senega Conc., 1 to 7, 6 lbs. @ 2/6 lb.  
" Valerian Conc., 1 to 7, 6 lbs. @ 1/10 lb.

Insect Powder, Opt., English Grd., closed flowers, 7 lbs. @ 3/- lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/10 lb.  
Iodoforn Pulv. B.P., 7 lbs. @ 18/- lb.; 1 lb. @ 18/6 lb.  
Iodum, resub. B.P., 7 lbs. @ 14/11 lb.; 1 lb. @ 15/8 lb.  
Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ lb.; sifted, per lb.

Lapis Pumicis, fine powder, 2 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.; lump, 2 cwt. @ 18/- cwt.; 7 lbs. @ 3d. lb.  
Licorice Juice, Sticks, 1 cwt. @ cwt.; 28 lbs. @ lb.; 7 lbs. @ lb.  
" Lin. Aconitii Metb., 5 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.  
" Bellad. Metb., 5 lbs. @ 8/8 lb.; 1 lb. @ 9/- lb.  
" Campb. P.B., 9 lbs. @ 1/9½ lb.  
" Sapo Meth., 9 lbs. @ 1/4 lb.  
" Tereb. Acet., B.P., 5 lbs. @ 1/3 lb.  
Linsed c. Oil, Crushed, 3 cwt. @ 44/- cwt.; 1 cwt. @ 46/- cwt.  
" Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 1/5 lb.; 1 lb. @ 1/9 lb.  
" Ammon. Aromat., 6 lbs. @ 11d. lb.  
" Antim. Chlor. Pure, 8 lbs. @ 10d. lb.  
" Arsenicals, B.P., 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.  
" Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.  
" Bismuth. P.B., 6 lbs. @ 1/7 lb.  
" Copaiba Bucbu et Cubeb, 5 lbs. @ 3/6 lb.; 1 lb. @ 3/9 lb.  
" Easton, p.s. 1-3, B.P., 1 lb. @ 5/6 lb.  
" Ferri Dialysatus, 6 lbs. @ 1/7 lb.  
" Ferri Iod. p.s., 1-7, 1 lb. @ 7/3 lb.  
" Ferri Perchlor. Fort., P.B., 7 lbs. @ 6d. lb.  
" Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/7 lb.  
" Hamamelidis, B.P., 6 lbs. @ 1/4 lb.  
" Hypophosph. Co. p.s., B.P.C., 1 lb. @ 4/4 lb.  
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" Morphine Acet. or Hydrochlor., P.B., 6 lbs. @ 4/4 lb.; 5 lbs. @ 7/- lb.  
" Opil Sed., 5 lbs. @ 7/- lb.  
" Plumbi Subacet., P.B., 7 lbs. @ 7d. lb.  
" Prunl Virg. p.s. 1-7, 5 lbs. @ 2/10 lb.  
" Rhacados pro Syr. 1 to 7, 5 lbs. @ 2/9 lb.  
" Rbel, p.s., 1-7, 6 lbs. @ 3/2 lb.  
" Santal Co., 1 lb. @ 5/6 lb.  
" Sennæ Dulc. 6 lbs. @ 1/9 lb.  
" Sennæ pro Syr. 1-7, 6 lbs. @ 3/5 lb.  
" Strychnina Hyd. P.B., 6 lbs. @ 2/2 lb.  
" Tolut. pro Syr. 1-7, 6 lbs. @ 2/- lb.  
" Trinitrat B.P., 1 lb. @ 8/3 lb.  
Lithia Carb. P.B., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.  
" Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.  
Lycopodium, 7 lbs. @ 7/9 lb.

Mag. Calc. Levls, 1 lb. @ 2/10 lb.  
Mag. Calc. Pond., 7 lbs. @ 3/6 lb.; 1 lb. @ 3/10 lb.  
Mag. Carb. Pond., 7 lbs. @ 11d. lb.  
Mag. Carb. Levls., 1 cwt. @ cwt.; 7 lbs. @ 1/3 lb.  
Mag. Cit. Gran., 28 lbs. @ lb.; 6 lbs. @ 2/1 lb.  
Mag. Sulph., fine druggists', B.P., 1 cwt. @ 30/6; 28 lbs. @ 4d. lb.  
Manna, Flake, 14 lbs. @ 6/- lb.; 7 lbs. @ 6/2 lb.; 1 lb. @ 6/9 lb.

Menthol, dry white cryst., 60 lbs. @ 13/6 lb.; 5 lbs. @ 14/- lb.  
" Mist. Sennæ Comp., B.P., 20 lbs. @ 8d. lb.; 6 lbs. @ 9d. lb.  
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Naphtbalene, Candles, 7 lbs. @ 9d. lb.  
Nux Arca, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 102/- cwt.; 7 lbs. @ 1/2 lb.

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Ol. Anisi, E.L., 66 lbs. @ 3/8 lb.; 16½ lbs. @ 4/- lb.; 4½ lbs. @ 4/5 lb.; 1 lb. @ 4/8 lb.  
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Oil of Bays, genuine W.L., 1 lb. @ 14/6 lb.  
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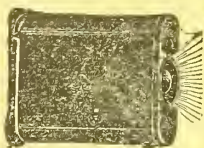
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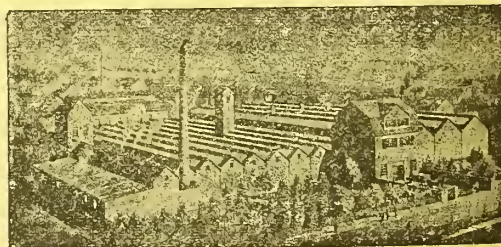
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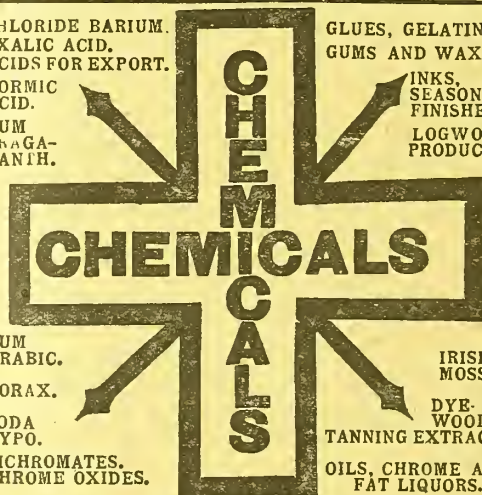
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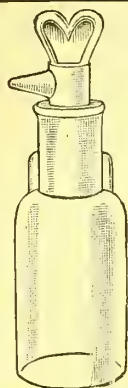
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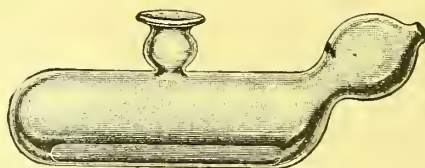
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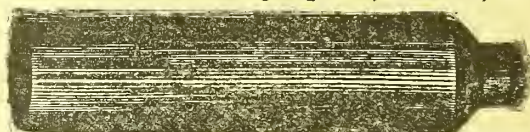
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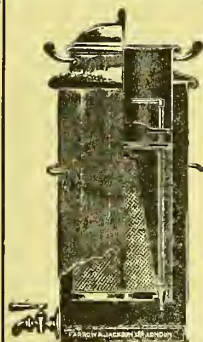
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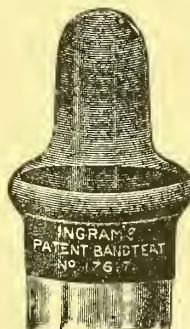
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(Note the patent band  
around the teat that grips  
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"A GRIPPA" Band Teat (Black  
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The "AGRIPPA" Band Teat will  
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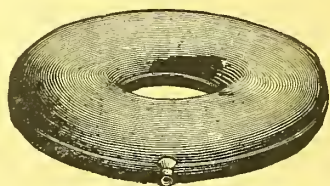


Fig. 1194.

Fig. 1194.—The “**EMPIRE,**” red India-rubber Air Cushion—

Diameter	14	15	16	17	18	19	20 in.
Each	6 6	7 0	8 0	8 6	10 0	11 6	12 6

Fig. 1354.—Air Cushion, sateen covered, rceded

Sizes	14×10	15×12	18×14 in.
Each	<b>4 3</b>	<b>4 9</b>	<b>6 0</b>

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**ILLUSTRATED PRICE LIST POST FREE.**

**OUR GOODS ARE RIGHT.**

**MONEY BACK IF NOT SATISFIED.**

**BURGE, WARREN & RIDGLEY, LTD.,**

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

The NORWICH  
CRÊPE + BANDAGE

**SUPERIOR ENGLISH MANUFACTURE.**  
Extremely elastic, but contains no rubber.  
**FAST WOVEN EDGES.**



*"Shopping is a real pleasure now that I have the Norwich Crepe Bandage."*

## THE BANDAGE THAT CAN BE STERILIZED.

**IMPORTANT**  
**THE EDGES WILL NOT**  
**FRAY OUT NOR BAVEL.**

Invaluable for all binding purposes. Entirely displaces bandages of rubber and elastic web. Considerably more durable, although less than one-third the cost of rubber or elastic web.

## WOOL v. COTTON Sterilized Bandages.

Patients having varicose veins and other ailments requiring the use of bandages usually suffer from cold extremities due to bad circulation. They require *warmth* as well as support. The Norwich Crêpe Bandages, containing wool, provide this warmth and do not absorb grease so readily as those made of cotton. Moreover, they may be thoroughly cleansed by the use of *hot* (not boiling) soapy water, with the addition of a little ammonia or soda. The bandages are healthy and comfortable to wear, giving the necessary firmness, yet yielding to every movement. Self-clinging and self-adjusting.

The Norwich Crêpe Bandage is made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Its inexpensiveness, compared with foreign productions, and its high quality, universally commended by the medical and nursing professions, make it ideal for sufferers from varicose veins and for all purposes where bandages are required. Send for prices and samples to the sole manufacturers :

**THE NORWICH CRAPE CO. (1856) LTD.,**  
St. Augustine's Silk Mills, Norwich, Eng.

London buyers can obtain samples and prices from Mr. T. Eastaway, London representative, 7, Wool Exchange, E.C. 2

Provincial Selling Agents:  
Messrs. Freese & Moon, 100 Bermondsey St., London, S.E. 1.



# "SANOID" BORACIC SOCKS

## FOR SPRING SALES.

MANY Chemists  
have enjoyed the  
ready sale of  
Boracic Socks,  
which literally

**SELL  
THEMSELVES**

5/- per dozen pairs.  
57/- per gross pairs.



Now is the time  
to order, so as to  
enjoy a share of  
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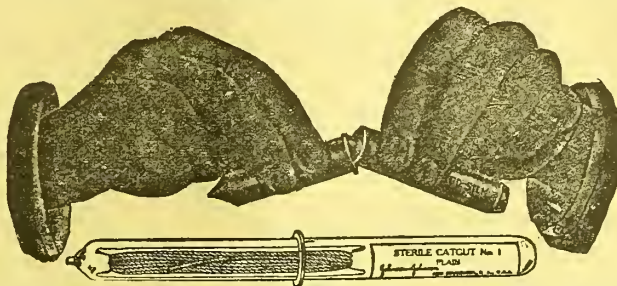
**READY  
SALES**

FREE SAMPLE PAIR  
ON APPLICATION.

**CUXSON, GERRARD & CO., Ltd., OLDBURY  
AND BIRMINGHAM.**

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BREAKABLE TUBES.



## RELIABLE

In ligature and suture material, there can be nothing better conceived for the sterile and aseptic preparation and conveyance of the same, than a hermetically sealed glass tube. Catgut or silk, as it is prepared in our laboratories must reach the surgeon's hands in absolutely sterile condition.

This is our positive guarantee.

These Tubes possess advantages known to no other tubes. The perfection of Johnson & Johnson's Laboratory preparation of Ligature and suture material cannot be obtained elsewhere.

Specify  
**JOHNSON & JOHNSON,**  
or write for

"HANDBOOK OF LIGATURES"  
and sample of STERILE CATGUT.

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CITY 6910.

LIGATURES.

LIGATURES.



**FREDK. FINK & CO.,**

10 &amp; 11 MINCING LANE, LONDON, E.C.

**SPECIALITIES.**—Gums Arabic and Tragacanth as imported or finely powdered.**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense

APPLY TO

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Telegrams: "LEVERMORE LONDON" Telephone 4613 Central

**J. W. PINDAR & CO. Druggists' Engineers.****PILL MACHINERY (Hand & Power).**

Hand Pill Machines (for Chemists), Tablet Sugar Coaters (with Hot-Air Blowers), Pill Coaters, Counters with Shoot, Tincture Presses, Emulsifying and Mixing Machines, Percolators, Ointment Mills, Drug Mills, "Eternite" Ovens, &amp;c.

Other Machinery for Manufacturing Druggists and Chemists.  
**BROCKLEY, LONDON, S.E.** Telephone: New Cross 1065.**Hot Water Bottles****BEST ENGLISH MAKE. HEAVY WEIGHT.**

Send for Prices to

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PARTNERS: A. F. HAYNES; G. P. FIRMIN.

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MANUFACTURERS OF

**BLEACHED & ABSORBENT COTTON WOOLS, BANDAGES, &c., &c.**

FIVE GOLD MEDALS, FIVE SILVER MEDALS, &amp; DIPLOMA OF HONOUR.

The Highest Awards given to any Cotton Wool or Lint Manufacturers.  
Telephone: 112 STOCKPORT. Telegrams: "HAYNES STOCKPORT."**JOHN E. RAWORTH**

CHARTERED PATENT AGENT,

**PATENTS, TRADE MARKS AND DESIGNS.**THE  
OLD MANSION HOUSE, and QUEEN ANNE'S CHAMBERS,  
73 Cheapside, E.C. WESTMINSTER, S.W.**Wrinkles Absolutely Removed**

BY

'P.A.T.A. 3/9.  
Wholesale terms  
on application.**Denova**IN DAINTY  
DOULTON POTS

From your Wholesaler or

**The Thames Chemical Co., Ltd.,**  
Amberley House, Norfolk St., Strand, W.C.**LUMINOUS PAINT**

(DR. BALMAIN'S.)

As supplied to H.M. Government.

New department of Luminous painted articles.

Good Selling Lines for Chemists.

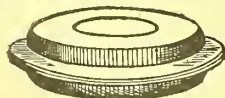
Luminous Paint and Radio-Active Compounds.

Sole Manufacturers: **HORNE'S LUMINOUS CO., Ltd.,**  
"ST. KATHERINE'S," London Road, North Cheam, Surrey.**TOBACCOS! CIGARS! CIGARETTES!**Every known Brand at Manufacturer's own List  
Prices. Endless variety of Tobacconists' Fancy  
Goods & Shop Fittings. The Trade only supplied  
Opening orders a Speciality. Send for Price List.**SINGLETON & COLE, LTD., Cannon Street, BIRMINGHAM  
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**CACHETS****WEPS.****WEST-END PHARMACY SUPPLY**  
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231 Regent St., LONDON, W. 1.

*The best quality,**— 2/9 per 1000. —*

All sizes, plain and embossed.

Orders accepted for coloured &amp; printed.

Carriage paid on orders for 5000.

**DeVilbiss****ATOMIZERS  
SPRAYS****FOR MEDICAL AND TOILET USE**

They are Guaranteed

Full Stocks in London

**THE DEVILBISS MFG. CO., 71 Newman St., LONDON, W.****Van Horn and Sawtell**  
— LONDON AND NEW YORK —

MAKERS OF

**"K-Y" LUBRICATING JELLY**

IN COLLAPSIBLE TUBES AND OF

**"Van Horn" Sterile Sutures and Ligatures**

IN GLASS TUBES — PRICES ON APPLICATION

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**DISINFECTANTS**

OF ALL KINDS

Cheapest Makers of Co-efficient Acids and Fluids.

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This popular article is largely advertised and stocked by all Wholesale Houses.

**TRIAL BOTTLES** 7d. size supplied on pretty showcards.

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**W. GARTHWAITE,***Mechanic to the Dental Profession,*

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PRICE LIST ON APPLICATION.

**CACHETS "FINOT"**

(White or Coloured).

**With Inscriptions in any desired tint; also Plain or Embossed.**"Beautifully made and the inscriptions give them a distinction all their own,"—*C. & D.*  
"Perfection of Cachets,"—*Lancet.*These Cachets are especially adapted for Headache, Neuralgia and other powders.  
**COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.**  
In 17 Sizes, to fit the various types of Cachet Machines.**INVESTIGATE**The Py-Shan Points Co-operative Sales plan—we think it will interest you. It has a regular weekly sale, gives 4d. per lb., profit, and sales are confined to chemists. Just a card for particulars now to

CHRISTYS, OLD SWAN LANE, E.C.

**INDIA RUBBER**

(Red Mineralized and Arabesque).

SURGICAL, CHEMICAL, DOMESTIC ARTICLES, SYRINGES, ENEMAS, WATER BEDS.

Manufacturers of every description of **INDIA RUBBER**, Wholesale & Export only.**WM. WARNE & CO., Ltd., 29 Gresham Street, LONDON, E.C.**

[See p. 429 "C. &amp; D." Diary 1917]

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Culvert Works, Culvert Road, South Tottenham, London, N.

WHOLESALE AND EXPORT ONLY.

Manufacturer of **CATHETERS** and **BOUCIES**, DRUGGISTS' **SUNDRIES**, **SURGICAL RUBBER GOODS** and **DRESSINGS**.

Ask for Price Lists.

**A. MILLAR & CO., LTD., DUBLIN**  
**PURE ORANGE WINE****STYUM AURANTII B.P.**

Prepared in strict accordance with the Formula of the British Pharmacopoeia.

(Wholesale only)

London Agent: **JAMES STIRTON, 43 GREAT TOWER STREET, E.C.****"AUX FLEURS DE FRANCE."****LEON MIRENER, Manufacturing Perfumer**

(Formerly Parfumerie Aristocratique de Paris).

Eighteen years' experience in the manufacture of Essential Oils, Perfumery, and Toilet Articles.

**SPECIALITIES.**—Own-Name Toilet Powders, Lotions, Creams, Henna Shampoos, Nail Preparations, &c. Also sold in bulk.  
Write for quotations to 48 Cranhurst Road, Cricklewood, London, N.W.  
Factory: 65 Dudden Hill Lane, N.W.**NATIONAL ANILINE & CHEMICAL**

COMPANY, INCORPORATED.

**244 MADISON AVENUE, NEW YORK.**

Cable Address—"JUBILANT, NEW YORK."

London Agents: **SAMUEL LAMBERT & CO., 14 Mincing Lane, E.C.****Enamelled Hospital Requisites**

Aqua-Pura Water Still.



Spitting Cups, Douches, Bed Pans, &amp;c.

HIGHEST  
QUALITY.  
PERFECT  
PACKING.**BRITISH  
MANUFACTURE.**Write for  
Catalogue.**ORME, EVANS & CO., LTD.** Works: Wolverhampton, England.  
Showrooms—London, Sydney, Capetown, Montreal, Vancouver.

ALL . . .

**Chemicals & Drugs**

PHARMACEUTICAL and TECHNICAL,

**WHOLESALE and EXPORT**

INQUIRIES SOLICITED.

**V. A. PICERNO****92 Falcon Road, BATTERSEA, LONDON.**

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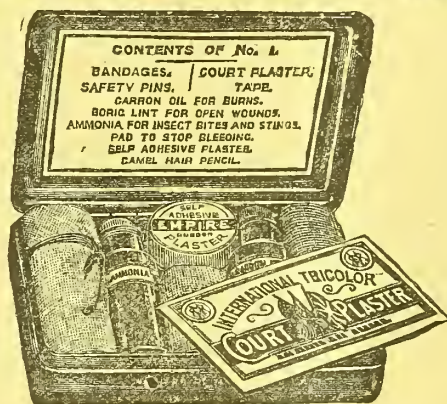
# THE ADVANCE

made in Compressed Dressings enables us to offer the following New Series.

## BE PREPARED FOR ACCIDENTS, AIR RAIDS, &c.

FIRST-AID in  
Home, Office,  
Factory, etc.

ALWAYS READY  
for an EMERGENCY



SANDRINGHAM  
COMPRESSED  
OUTFITS  
*New Series*

- No. 10.—Sandringham Compressed Pocket Outfit.** Size of case,  $4 \times 3 \times 1$  in. ... each **1/6**  
Comprising Bandage, Cotton Wool, Boric Lint, Iodine Ampoules, Styptic Pad, Adhesive Plaster, Court Plaster, Boric Ointment, Zinc Ointment, Safety Pins, Camel Hair Brush.
- No. 11.—Sandringham Compressed First-Aid Outfit.** Size of case,  $6 \times 3\frac{3}{4} \times 2\frac{3}{8}$  in. ... each **5/9**  
Comprising Assorted Bandages, Triangular Bandage, Absorbent Wool, Lint, Gauze, Boric Gauze, Protective, Finger Splints, Tweezers, Sal Volatile, Plaster, Boric Ointment, C.H. Brushes, Safety Pin, Sponge.
- No. 12.—Sandringham Compressed Outfit.** Size of case,  $5\frac{1}{2} \times 5 \times 1\frac{1}{2}$  in. ... each **6/3**  
Comprising Assorted Bandages, Boric Wool, Boric Lint, Abs. Wool, Abs. Lint, Boric Ointment, Plaster, Protective, Jaconet, Styptic Pads, Court Plaster, Iodine Ampoules, Carron Oil, Sal Volatile, Sponge, Safety Pin, Scissors, Tweezers, C.H. Brush.
- No. 13.—Sandringham Compressed Outfit.** Size of case,  $7\frac{1}{2} \times 4\frac{1}{2} \times 1\frac{1}{2}$  in. ... each **10/-**  
Comprising Assorted Bandages, Boric Lint, Boric Wool, Abs. Lint, Abs. Wool, Abs. Gauze, Boric Gauze, Plaster, Court Plaster, Boric Ointment, Zinc Ointment, Iodine Ampoules, Sal Volatile, Friars Balsam, Scissors, Tweezers, Finger Splint, Jaconet, Safety Pins, C.H. Brush, Needles and Thread, Sponge.
- No. 14.—Sandringham Compressed Outfit.** Size of case,  $6\frac{1}{2} \times 5\frac{1}{2} \times 2$  in. ... each **11/6**  
Comprising Assorted Bandages, Triangular Bandage, Abs. Gauze, Abs. Wool, Abs. Lint, Boric Wool, Boric Lint, Sal Volatile, Zinc Ointment, Boric Ointment, Plaster, Court Plaster, Iodine Ampoules, Scissors, Tweezers, Finger Splint, Finger Stall, Jaconet, Safety Pins, Needles and Thread, C.H. Brush, Sponges, Drinking Cup.
- No. 15.—Sandringham Compressed Outfit.** Size of case,  $8\frac{1}{2} \times 4\frac{3}{4} \times 2\frac{1}{2}$  in. ... each **13/-**  
Comprising Assorted Bandages, Triangular Bandage, Cyanide Gauze, Boric Wool, Boric Lint, Abs. Wool, Abs. Lint, Drinking Cup, Sponge, Adhesive Plaster, Iodine Ampoules, Boric Ointment, Carron Oil, Friars Balsam, Sal Volatile, Straps & Buckles, Splints, Tweezers, Scissors, Jaconet, Court Plaster, C.H. Brushes, Safety Pins, Needles & Thread.
- No. 16.—Sandringham Compressed Outfit.** Size of case,  $8 \times 6 \times 2\frac{1}{4}$  in. ... each **16/6**  
Comprising Assorted Bandages, Triangular Bandages, Cyanide Gauze, Boric Wool, Boric Lint, Plain Lint, Plain Wool, Splints, Adhesive, Court Plaster, Drinking Cup, Sponge, Safety Pins, Jaconet, Iodine Ampoules, Scissors, Tweezers, C.H. Pencils, Sal Volatile, Friars Balsam, Carron Oil.
- No. 18.—Emergency Outfit, to hang on wall.** Size of case,  $15 \times 12\frac{1}{2} \times 3\frac{1}{4}$  in., each **45/-**  
Comprising Set of Splints, 3 doz. assd. Comp. Bandages, Assortment Compressed 2 oz. Wool, Lint and Boric Lint, Abs. Gauze, Adhesive, Drinking Cup, Sponge, 1 doz. Iodine Ampoules, Protective, 8 Triangular Bandages, Scissors, Tweezers, Safety Pins, C.H. Brushes, Sal Volatile, Carbolic Lotion, Picric Solution, First-Aid Book.

**MAY, ROBERTS & CO., LTD.** 7 to 13 Clerkenwell Road,  
LONDON, E.C. 1.

AND 16 WESTMORELAND STREET, DUBLIN.



Since 1780 we have been continuously associated with the handling of Drugs and the manufacture of Pharmaceutical Preparations, and during the past three-quarters of a century or more have specialised in the production of ALKALOIDS, ANÆSTHETICS, ANTISEPTIC LISTERIAN and other SURGICAL DRESSINGS. Undernoted is a list of some of the articles which we can offer to advantage:—



Morphine  
Codeine  
Apomorphine  
Aceto-Morphine  
(Heroin)  
Ethyl-Morphine  
(Dionin)  
Cotarnine  
(Stypticin)  
Narcotine  
Papaverine  
Berberine  
Emetine  
Homatropine  
Hydrastine  
Strychnine  
Veratrine

### **Chloroform & Ether**

of highest possible purity,  
for Anæsthesia.

### **Surgical Dressings**

in which uniformity of  
medication is  
guaranteed.

### **Surgical Catgut**

in every form. Specially  
selected and tested.

Aloin  
Caulophyllin  
Cimicifugin  
Chrysarobin  
Euonymin  
Hamamelin  
Iridin  
Leptandrin  
Podophyllin  
Salicin  
Scammony  
Resin  
Spirituos  
Galenicals  
in bond

*For Wholesale and Export only.*

# **J. F. MACFARLAN & C<sup>o</sup>**

*Manufacturing*  
*Chemists :: ::* **Edinburgh & London.**

# JUNKET TABLETS ESSENCE OF RENNET TABLETS

THE SEASON HAS  
NOW COMMENCED!

See that you hold full stocks.

The demand will be greater than ever owing to the cost of eggs and the restrictions on farinaceous products.

Tubes holding 16 tablets **4/6** per dozen.

*Each tablet sufficient for 1 pint of milk.*

**SHOWCARDS FREE.**

Name and Address on 3 dozen.



## JUNKET POWDER

Isn't this a dainty dish to set before a guest?



**Devonshire Junket** made with our

**JUNKET POWDER**

Delicious with all Stewed Fruit.

**PRICE 6d.** Makes 15 Quarts of Junket.

In boxwood measure cups.  
A more highly concentrated preparation.

Preferred by some retailers to the tablet form.

Each measureful sufficient for 1 quart of milk.

Tube contains sufficient for 20 quarts.

**PRICE 7/6 PER DOZ.**

Retail 1/- per tube.

Name and Address on 3 dozen.

**SHOWCARDS FREE.**



**The Standard Tablet & Pill Co.**  
**HOVE, ENG.**  
**LIMITED**



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, AUGUST 25, 1917

This Supplement is Inserted in every number of The Chemist and Druggist.

## CHEMISTS' TRANSFERS.

### Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number : City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, W.—For immediate disposal, high-class Perfumery Business (Wholesale and Retail); intending investors with capital at command will find this a good investment; formerly the net profit was from £8,000 to £10,000 per annum.

2.—PORTLAND ROAD STATION (within easy distance of).—For Disposal through death, good middle-class Business; Retail and Dispensing; excellent position in main thoroughfare; returns about £1,000; scope for considerable extension under energetic management; valuation terms entertained.

3.—FINSBURY PARK (within easy distance of).—Ready-money Business, situate in busy main thoroughfare; returns, present rate about £1,200 at fair prices; modern-fitted shop and ample stock; comfortable residence, with garden; immediate sale desired.

4.—LONDON, N.E.—Brisk Ready-money Business; held by Vendor upwards of 25 years, now retiring; returns average between £1,100 and £1,200 per annum; net profit one-third; Vendor's own property; new lease; price £550.

5.—NORTHERN SUBURB (Main Line of Rail).—For Disposal, a good but neglected Business returning, under Assistant, £1,270 at fair prices; books audited by accountant and stock taken annually; terms, small sum for goodwill and valuation of stock and fixtures.

6.—LONDON, S.W.—Good-class Business; capital position; returns about £2,000; intending investors with £1,100 at command will find this a sound concern.

7.—RICHMOND, SURREY (near).—Very old-established Business; held by vendor many years, now retiring; returns about £870; profits above the average; first reasonable offer will be accepted.

8.—ENGLAND (South-West).—For immediate disposal, a half share in a Ready-money Business returning over £50 per week; full investigation permitted.

9.—KENT (Market Town).—Very old-established Business; position good; returns last year £949; net profit £240; roomy shop, fitted in mahogany; rent £42 10s., which includes comfortable residence and garden; terms, valuation of stock and fixtures.

10.—MIDLANDS.—Cash Drug Store for disposal through owner having to join up; returns about £630; excellent opening for a qualified man; good residence with garden; rent £28; price £300, or valuation of stock and fixtures.

11.—SOUTH-WEST OF ENGLAND (Health Resort).—Good-class Retail, with excellent sale for own proprietaries which have a local and postal sale; returns average about £700, and net profit £275; well-appointed shop and residence; held on lease; terms £50, and valuation of stock and fixtures.

12.—BERKS (Death Vacancy).—Middle-class Retail, also Photographic Business; returns, excluding Photographic, £546; comfortable residence with garden; rent £26; rates £7; no serious opposition; price £250, or near offer.

13.—BRIGHTON.—Retail and Dispensing Business, situate in shopping thoroughfare in chief business centre; returns between £1,400 and £1,500; gross profit last year £570; well-appointed shop and comfortable residence; price about £1,000.

14.—SOUTH COAST.—Unopposed Mixed Country Retail Business with own Proprietaries; steadily increasing returns; now between £1,300 and £1,400; rent £45 for double-fronted shop and good seven-roomed house and garden; terms, lease and goodwill £120; stock and fixtures at valuation.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**

## BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

**SOUTHPORT.**—Excellent Business for sale; satisfactory reasons for disposal. Details from Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

**WARWICKSHIRE.**—In charming residential village, unopposed Light Retail and Photographic; no N.H.I. work; returning £800; satisfactory reason for disposal; price £600. Apply "Pharmacist," c/o Southall Bros. and Barclay, Ltd., Chemists' Valuers, Birmingham.

**WILTSHIRE.**—In old-world small town on G.W. main line, first-class Dispensing and Prescribing Business, showing net profit well over £300; unusual opportunity. Address "Wiltshire," c/o Southall Bros. and Barclay, Ltd., Chemists' Valuers, Birmingham.

**BUSINESS** for sale; Yorkshire; Principals with capital seeking profits of £800 to £1,000 should write in confidence, with bank reference, to W. Naticr, c/o Warrick Bros., 4/6 Nile Street, City Road, N. 1.

**EXCELLENT** opportunity to acquire good-class Dispensing and Light Retail Business in flourishing watering place; owner, being compelled through ill-health to sell, offers same at sacrifice to prompt purchaser; low rent; comfortable house; returns £1,200; net profit over £300; price £850; no agents. Apply 58/54, Office of this Paper.

**FOR** Sale, high-class Chemist's Shop and Stock; special offer for discharged soldiers who are in the Chemical and Drug trade; 15 per cent. will be allowed off the amount of purchase. Apply the French Drug Stores, 67 Mare Street, Hackney, N.E.

**FOR** immediate Disposal through ill-health, an old-established Agricultural and Family Business in a good market town in Lincolnshire; new front and modern fittings; returns about £1,500, leaving excellent profit. Apply "Business," c/o Left-house & Saltmer, Ltd., Wholesale Druggists, Hull.

**FOR** immediate disposal, an old-established Homoeopathic Pharmacy; to be sold at the price of stock and fixtures only. A. Steward, 100 Kirkdale, Sydenham, S.E.

**GENUINE** old-established Retail and Dispensing Cash Business in good-class district of seaside resort; returns £1,400 to £1,500; lease and fullest investigation; owner retiring; a bargain for quick sale; same hands many years. "Lancashire" (111/59), Office of this Paper.



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(ESTD. 1837)

**CHEMISTS' VALUERS, TRANSFER AGENTS,  
AND EXPORT STOCKTAKERS.**

Balance Sheets Prepared. Books Audited.

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Telephone: GERRARD 2169.

**BERDOE & FISH****VALUERS & TRANSFER AGENTS,****85 Jewry Street, Fenchurch Street, City.**

Telephone: 1809 CENTRAL.

**NO CHARGE TO PURCHASERS.**

1.—**BIRMINGHAM**.—Very profitable Cash Retail, with several good Proprietaries and some Optical; main road position; low rent, on lease; returns £900; net profit last year £320, besides £30 from Agency attached to business; books properly kept; smart well-fitted Pharmacy, heavily stocked; urgent family reasons necessitate a quick sale; price only £450; much under valuation; strongly recommended.

2.—**LEICESTERSHIRE**.—Genuine Cash Drug Stores; same hands 15 years; now called up; returns average £630; net profit £200; good house and Pharmacy; well stocked; one other Chemist; price £300 or valuation.

3.—**LIVERPOOL**.—Light Retail Dispensing and Prescribing Business; no side lines; all ready money; returns under Manager £16 a week, increasing; corner double-fronted shop; good house attached; price £350.

4.—**WEST END**.—High-class Dispensing Business for private disposal; occupying a very prominent position, and with scope for considerable increase; returns average £2,000; excellent profits; books properly kept; price £1,100; references required; splendid chance for two smart men.

**STOCKTAKINGS.**

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

**Messrs. TOPLIS & HARDING**

AUCTIONEERS.

Established 1790

**66 CANNON ST., LONDON, E.C. 4**

will SELL by AUCTION at the

**London Commercial Sale Rooms, on Wednesday, Sept. 12,****ANILINE DYES (about 100 lots)****TARTARIC ACID****BORACIC ACID****LOGWOOD EXTRACT****SANDALWOOD****BETA-NAPHTHOL****BENZO-NAPHTHOL.**

AND ABOUT

**430 Gallons MEDIUM HARD SPIRIT VARNISH**Also the following **SALVAGE** on behalf of:

Lloyd's Underwriters.

**200 BALES CINNAMON (about 8½ tons),****4 BALES SENNA (about 2 tons), now lying in London.**

Catalogues may be obtained upon application at the Auctioneers' Offices, 66 Cannon Street, London, E.C. 4.

**BUSINESSES FOR DISPOSAL (continued).**

**GENUINE** small Business; profitable ready-money trade; no keea cutting; good N.H.I. connection; same hands many years; owner retiring; London, N.E. Apply 60/7, Office of this Paper.

**GREAT YARMOUTH**.—Genuine old-established Business; good position; low rent on lease; well stocked; good trade all the year round; returns £2,000, with every prospect of considerable increase; price £1,400; easy terms to one taking early control. Shearman, 156 King Street.

**CHEMIST'S BUSINESS FOR SALE IN OBAN.**

**OFFERS** are invited for that well-established WHOLESALE and RETAIL CHEMIST'S BUSINESS carried on for the last 35 years by Mr. Samuel Lawrence at 101 George Street, Oban.

The business has an excellent connection throughout the whole of the Western Highlands, and the annual turnover exceeds £3,000 per annum. The stock on hand is in good condition.

For further particulars apply to the subscribers, or to Messrs. L. & J. McLaren, W.S., 23 Rutland Street, Edinburgh, or Mr. Parkin S. Booth, Accountant to the Association of Manufacturing Chemists, 32 Kimberley House, Holborn Viaduct, London, or 2 Bixteth Street, Liverpool, with any of whom offers must be lodged forthwith.

A. T. NIVEN & CO., C.A.  
1 Charlotte Square, Edinburgh,  
16th August, 1917.

**UNOPPOSED** Mixed Village Drug Stores, with small Wholesale attached; scope for further development; suit qualified or unqualified; good reasons for disposal; double-fronted shop, with convenient house attached; clear sea, returns £1,400, annually increased; stamped, addressed envelope for particulars if sincere. "South Coast" (60/6), Office of this Paper.

**TENDERS.****IN PRIZE.**

By Order and for Account of the Marshal of the Admiralty.  
**TO Be Sold by PUBLIC TENDER:—**

Ex "Talisman," lying at Leith.

About 60 barrels **WHITE PETROLEUM B.P.** (Petroleum Jelly).

Ex "California," lying at Grimsby.

About 20 barrels **PHARMACEUTICAL CASTOR OIL.**

To be sold subject to Government restrictions as to export. Samples may be seen and Tender Forms and further particulars obtained at the Offices of the Selling Brokers, Arthur Brown & Co., Canonile Street Chambers, London, E.C. 3.

Tenders in envelopes, marked "Tender No. 7," and addressed to the Admiralty Marshal, Royal Courts of Justice, Strand, W.C. 2, must be received not later than noon on **WEDNESDAY, September 5, 1917**, and same will be opened by the Marshal.

**CONTRACTS.**

**THE** Guardians of the Poor of the Parish of St. Mary, Islington, invite Tenders for the supply of Drugs and Druggists' Sundries for three months from October 1, 1917 (inclusive), to the several Institutions of the Guardians in the Parish.

Printed forms of Tender must be obtained from the Clerk personally, or a stamped addressed brief-size envelope may be sent.

Sealed Tenders must be delivered at the undermentioned offices on or before Tuesday, September 4, 1917, and they will be opened at a meeting of the Guardians on Thursday, September 6, 1917.

The Guardians do not bind themselves to accept the lowest or any Tender.

By Order.

EDWIN DAVEY, Clerk.

Guardians' Offices,

St. John's Road, Upper Holloway, N. 19,

August 20, 1917.

**FOR SALE.**

**CASH** Register (National) for sale cheap (second-hand); suitable for any business. Write to F. Hart, 113 Winchester Street, Warwick Street, Pimlico, S.W. 1.

**FURNITURES** and Stock for sale in small Pharmacy; just closed for want of Manager; good pitch for business; low rent; easily worked by lady; good London suburb. Apply 58/7, Office of this Paper.

**FOURTEEN** pounds of Saccharin Tablets, grain half 330 in 1, 115s. per pound; cash with order, post paid. Walton, Chemist, Batley Carr.

**BUSINESSES WANTED.**

**BUSINESS** wanted, London and Suburbs; returns £800 to £1,500. Full particulars, in confidence, "Wilson" (57/34), Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.



## AGENCIES.

**EGYPT.**—London Merchant with office in Cairo, well connected in the trade, and representing already leading English Manufacturers for Tooth Pastes, also for Medicated and Toilet Soaps, is willing to get in touch with Manufacturers of Pharmaceutical Products, Druggists' Sundries, Chemicals, etc., with a view of representation now or after the war for Egypt and the Near East; best London references. Apply 58/30, Office of this Paper.

**AGENCY OFFERED.**—Firm advertising in "C. & D." desire to supplement their advertisements by a direct canvass; the lines offered are smart, and an enormous sale can be easily made; 25% commission given; an energetic man should clear at least £7 per week, taking this as an additional side-line; preference given to man already on ground; London, South Coast, Wales, East Coast, Midlands; two references desired. Apply 111/29, Office of this Paper.

**GENTLEMAN** above military age, with good credentials, having large connection amongst Chemists in the North of England, would like to represent two or three first-class houses with Proprietary articles on commission basis. Address "K." (58/25), Office of this Paper.

**REQUIRED** by leading British Oil Refiners, Agents in various parts of the world where not already represented, calling on Manufacturing Chemists and Druggists and Allied trades. Apply 67/40, Office of this Paper.

**WANTED**, Agents in Manchester and Birmingham districts to carry Dispensing Bottles as a side line on commission basis; must have good connection with Chemists and Doctors. Apply 58/14, Office of this Paper.

## TO LET.

**SHOP** to be Let; double-fronted; splendidly situated in shopping centre of main road, and fitted as a Chemist's; occupied by Chemist for nearly 50 years; good business just closed owing to illness; fixtures at valuation; rent £50 per annum, tenant paying rates and taxes. Apply Harry Hooper & Co., Surveyors and Valuers, Estate Offices, Millwall, 14.

## APPRENTICESHIPS.

**APPRENTICESHIP.**—Chemist wishes to place his son in a first-class Pharmacy, where every opportunity will be given for acquiring a thorough knowledge of the business; indoors, and within 50 miles of Brighton. Full particulars to M. P. S., 88 St. George's Road, Brighton.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

### RETAIL.

**BARRY** (Seaside).—Experienced Locum, not necessarily qualified, required for three or four weeks from mid-September; duties and hours light. References, wages (outdoors), and full particulars in first letter to Allen, Pharmacist, High Street, Barry.

**BOLTON.**—Qualified Assistant wanted for N.H.I. Department. State full particulars as to age, photo if possible, Blain, Pharmaceutical Chemists, 25 Market Street, Bolton, Lancs.

**BRIGHTON.**—Outdoors; competent Assistant, mainly for Dispensing; hours 9 to 7.30, Wednesday 9 to 9, Thursday 9 to 1, alternate Sundays duty 9 to 2 and from 6 to 8. Apply, with full particulars, stating age, height, salary required, and enclose photo if possible, J. Colby & Co., 101 Western Road, Brighton.

**BUXTON.**—Apprentice, Improver, or Lady (with some experience); comfortable indoor berth. Apply, with particulars, age, photo, references, salary, experience, to A. Thresh, Pharmacist, Buxton.

**CHELTHAM.**—Manager wanted for good-class Dispensing business; no N.H.I. Full particulars to A. Milne, College Pharmacy, Cheltenham.

**DARTFORD KENT.**—Good opening for smart, capable lady Dispenser; must have had good experience. State salary required and when at liberty, 58/16, Office of this Paper.

**DERBYSHIRE.**—Wanted at once, qualified or unqualified Assistant, used to general shop routine and N.H.I. work; good recent reference essential; lady or gentleman (ineligible); good salary; easy hours. Apply E. J. Latham, M.P.S., Shirebrook, Derbyshire.

**KENT.**—Good opening for capable unqualified male Assistant; permanency, with progressive salary. "Kent" (58/162), Office of this Paper.

**KENNINGTON, S.E.**—Managing Assistant wanted; good Counterman; reliable Dispenser for Retail; N.H.I. and Proprietary business; outdoors. State age, experience, salary required, and all usual particulars to "Central" (58/23), Office of this Paper.

**LEAMINGTON SPA.**—Senior Assistant, about 45, for position of trust; must be a capable Dispenser, but need not be qualified; reasonable hours; permanency, with good prospects to the right man. State salary and usual particulars to Fisher & Co., 35 Bath Street, Leamington Spa.

**LIVERPOOL.**—Assistant; qualified; middle-aged or elderly; comfortable post; hours 9.30 to 8 P.M.; half-day weekly; alternate Sunday 6 to 8 P.M. Apply, stating salary (photo if possible), 59/30, Office of this Paper.

**LONDON.**—First-class Manager required for high-class Pharmacy; applicants must produce undeniable references and be capable and energetic; proprietor willing to give liberal interest in the profits to anyone prepared to throw his whole interest into the management. Apply 58/160, Office of this Paper.

**LONDON, W.**—Assistant (either sex) for good-class Dispensing and Retail; in- or out-doors; salary according to hours. Harold Lyon, 18 Formosa Street, W.

**MANCHESTER.**—An Assistant wanted for the Retail Counter; one accustomed to putting up doctors' and ship orders; state experience, also age and salary expected. Apply 113/30, Office of this Paper.

**MANCHESTER.**—Wanted for small branch, unqualified middle-aged or elderly, if active. Give full particulars in first letter, "Manager" (59/36), Office of this Paper.

**MANCHESTER.**—Young lady, with some Counter and General experience, required for Chemist's establishment situate in working-class district; comfortable; permanency. "Manchester" 58/161, Office of this Paper.

**NORTH.**—Wanted, qualified Chemist; none but good all-round men need apply; easy hours; commencing salary £3.10s. per week. Apply 59/19, Office of this Paper.

**NOTTINGHAM.**—Assistant (qualified) for Proprietary and Specialty business; permanent situation; good wages. State full particulars and references, Hulme, Chemist, Nottingham.

**SEAFORD.**—Assistant wanted; qualified; outdoors; over military age. Also lady Assistant; outdoors. Apply, stating experience, salary required, to L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

**SHEFFIELD.**—Lady Dispensing and assist occasionally at Counter; hours 9 to 7 p.m., Thursdays 9 to 1 p.m., Saturdays 8.30 p.m.; tea provided. State age, height, experience, salary, when at liberty, and enclose photo if possible, G. T. W., Newsholme, Ltd., Chemists, 27 High Street, Sheffield.

**SITTINGBOURNE.**—Wanted, Locum or Manager for Dover; lady or gentleman; qualified. J. E. French, Hon. Sec., Kent Association of Pharmacists, Sittingbourne.

**SOUTH OF ENGLAND.**—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

**TYNESIDE.**—Wanted, young lady with Counter and General experience; able to take charge of shop in working-class district; good wages for suitable person. Send full particulars to Edwards, Chemist, Tyne Dock.

**WESTCLIFF-ON-SEA.**—Experienced, competent Dispenser and Bookkeeper, lady or gentleman, with Retail experience preferred; qualified or unqualified; ineligible for Army; excellent prospects, and a most congenial berth assured to suitable applicant. State age, experience, and salary required, in or outdoors, when disengaged, and enclose recent photo, to Body, "Westwood," Westcliff-on-Sea.

**WIGAN.**—Wanted, lady Dispenser with some previous experience of Surgery work; rooms and attendance provided. Apply Dr. Graham, Netherby House, Wigan.

**WISBECH.**—Wanted, a reliable Assistant (outdoor) for good-class country business; small amount of N.H.I.; short hours; young lady and porter kept. F. Oldham, Chemist, Wisbech.

**WORCESTER.**—Dispenser with good experience required; also an energetic Assistant for Counter, etc. State age, height, references, salary required, etc., Anderson & Virgo, Chemists, Worcester.

**A LADY** Assistant, part or whole time, immediately; high-class Dispensing business at Islington. Apply Atkins, 71 East Hill, S.W. 18.

**A QUALIFIED** Assistant for old-established Family and Dispensing business (no Insurance work); light work; would suit an elderly man; proprietor called up for military service; help given; comfortable post; South Coast town. Apply 59/38, Office of this Paper.

**ASSISTANT** wanted in high-class Retail and Dispensing business; must be reliable Dispenser; salary £200 per annum; outdoors. Apply 56/18, Office of this Paper.



**TO MANUFACTURERS AND AGENTS.**—Registered Design for Sale: a marked improvement in Boracic Socks and other Inner Socks is secured by the Design which is now Registered and for Sale; this will lower costs of production and marketing, and secure the Retailer's favour against all others; no reply to inquiries unless accompanied by reference. Apply 60/38, Office of this Paper.

**SECOND-HAND Chemists' Fittings.**—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

**SHOWCASES and Fittings.**—Large quantity on hand; Wall Cases, Dispensing Screens, Drug Fittings, Counters, Silent Salesmen, Counter Cases, etc. Write inquiries, PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1

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15 Gross.  
New Goods.  
Full Size and

Guaranteed Quality. Boxed complete, with all fittings,  
22/- per dozen, net cash.

**JAMES TOMPKINS, LTD.,**

THE RUBBER HOUSE,

386 CITY ROAD, LONDON, E.C. 1. [ESTAB. 1877.]

The following goods are offered for Sale:—

30,000 Tablets of Oxycyanide of Mercury of 0.5 gr. each,  
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6,000 Tablets of Sublimite of 1 gr. each, in bottles containing 300 tablets.

These goods are soluble in water in the proportion of one in a thousand of water and used as disinfectants. Several other drugs to be sold.

Write to "M.D.," 100 EDGWARE ROAD, LONDON, W.

FINEST QUALITY

## MILK POWDER. CASEIN.

*Inquiries and Orders Solicited.*

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Developing Spools, 6 Ex., 6d.; 12 Ex., 1/-; V.P.K., 6d.  
Prints up to and including 1/2 plate 1d. each.

ENLARGEMENTS. LIST FREE.

Prompt dispatch. Trade discount, 25 per cent.  
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MARTIN, Chemist, SOUTHAMPTON.

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STEAD & CO., Photographic Experts, Duke St., BRIGHTON.

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Original Cost Price for Vest Pocket Kodaks, R.R. Lens, and Watch Pocket Carbinas. Try us for Single Models, Dealers' Stocks, Ensignettes, &c. We reply promptly and courteously, and goods are returned at once, CARRIAGE PAID, if no business is done.

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YOUR CUSTOMERS WILL BE PLEASED WITH RESULTS  
IF THE ORDERS ARE GIVEN TO US.

## DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.  
3 and 4 ounce. 13 ounce. 6 and 8 ounce.

WHITE PHIALS, plain or teaspoons.

1 ounce. 1 1/2 ounce.

1 1/2 ounce. 2 ounce.

BLUE LOTION BOTTLES, all sizes.  
CORKS. Superior Quality. No advance in price.

6 and 8 ounce ... 1s. per gross, in 6 gross bags.  
Vials ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

**I. ISAACS & CO.,** Glass Bottle Manufacturers,

106 Midland Road, St. Pancras, London, N.W. 1,

or ISLINGTON BOTTLE COMPANY,

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Orders sent to either establishment have attention.

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White Demy, Yellow Wove (Blue, Brown, Tissue, White and Coloured De., Small Hands (Whitey-Brown) Sulphites, Kraft, and English Browns. Twines in 10 lb. balls & 10/6 per doz. Parcel String in 11 lb. balls @ 15/- per doz. Samples sent on receipt of card stating size and weight of paper required. Cash with order.

D. W. BULL,

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ALL CHEMISTS  
SHOULD STOCK

**ABDINE**

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation. "ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2d.; Boxes of 13 Packets 1/3. Order through your Wholesale Drug House. D. McCLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH. Wholesale Prices on Application

## WAR WANTS EXCHANGE.

For the interchange of scarce pharmaceutical products. Minimum charge (prepaid) which includes registration fee: 1/- for six words or less; 2d. per word beyond.

### WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Adalin tablets (111/42)	Hygraina food (111/42)
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Chinoral (111/42)	Lysidine (56/15)
Chinosol solids (111/42)	Migraineine (111/42)
Colgate's shaving-sticks (111/42)	Naftalan (111/42)
Cycloform (111/42)	Orthoform (111/42)
Elcaya crème (111/42)	Pond's vanishing cream (111/42)
Eugallol (111/42)	Pyoktannin (94/16)
Euresol-Knoll (56/15)	Rhinoculin cream (111/42)
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#### BRILLIANTINES.

<input type="checkbox"/> DOZ.	No. 1, 1½ oz.	...	4/- oz.	<input type="checkbox"/> DOZ.	No. 1a, 2½ oz.	...	6/6 per doz.
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#### ESSONALINE (SOLID BRILLIANTINE).

Now packed in unbreakable Imitation Marble Pots.

<input type="checkbox"/> DOZ.	6d. size	...	3/9 doz.	<input type="checkbox"/> DOZ.	1/- size	...	7/6 doz.
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#### ESSONA FLORAL OILS for the HAIR.

Made with the Concentrated Essona Flower Oils in 6 varieties: Jasmine, Rose, Honeysuckle, Lily of the Valley, Violet and Carnation.

<input type="checkbox"/> DOZ.	Minimum Retail (2½ oz.), 2/-	...	14/6 doz.
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#### GREASELESS HAIR CREAM.

Exquisitely Perfumed with Carnation.

<input type="checkbox"/> DOZ.	4 oz.	...	6/6 doz.
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#### TOILET PARAFFINS.

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#### BAY RUMS.

Guaranteed made from genuine Oil of Bay.

<input type="checkbox"/> DOZ.	2½ oz.	...	5/- doz.	<input type="checkbox"/> DOZ.	4 oz.	...	7/6 doz.
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#### SKIN CREAM.

<input type="checkbox"/> DOZ.	2½ oz. (Liquid Vanishing)	...	7/9 doz.
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Four Excellent Lines	<input type="checkbox"/> DOZ.	OXYGEN.	<input type="checkbox"/> DOZ.	EAU de COLOGNE.
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<input type="checkbox"/> DOZ.	WHITE CARBOLIC.	<input type="checkbox"/> DOZ.	PEPPERMINT.	All at 2/9 doz.
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#### SHAMPOO POWDERS.

<input type="checkbox"/> GROSS	Handsome Get-up, Best Powder and Perfume, Retail 2d.	...	12/- gross.
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All goods are now sent CARRIAGE PAID anywhere in the British Isles. 5 % Cash Discount.

**ORDER.**—Please send CARRIAGE PAID the goods as marked in the squares above, on the understanding that any not approved may be returned within three days of delivery. Cheque enclosed, value £ s. d.

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FOR THE

**"Allenburys" Milk Foods, Diet, Milk Cocoa, & Milk Food Chocolate.**

With the cost of all materials, &c., constantly increasing, we are compelled to advance the prices of the "Allenburys" Milk Foods, Diet, Milk, Cocoa and Milk Food Chocolate, as shown below. The amended prices yield a profit on return to the Pharmacist of 20 %.

**The "ALLENBURYS" MILK FOODS Nos. 1 and 2, and DIET.**

Size of Package.	Minimum Retail Price.	Gross Wholesale Price, subject to our Monthly a/c terms of 7½ %.
2/-	2/-	20 6 per doz.
4/-	4/-	41/- "

**The "ALLENBURYS" MILK COCOA.**

Size of Package.	Minimum Retail Price.	Gross Wholesale Price, subject to our Monthly a/c terms of 7½ %.
2/6	2/6	25 9 per doz.
4/6	4/6	46 6 "
9/6	9/6	98/- "

**The "ALLENBURYS" MILK FOOD CHOCOLATE.**

1½d. per tablet	...	...	...	7/6 per box of 6 dozen tablets.
5d. "	...	...	...	8/6 " " 2 "
10d. "	...	...	...	8/6 " " 1 "
3/- per box of 2 dozen 1½d. tablets; 30/- per dozen boxes.				

**ALLEN & HANBURYS, LTD., LONDON.****EXCHANGE COLUMN**

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

**FOR DISPOSAL.****BOOKS AND PERIODICALS.**

"CHEMIST AND DRUGGIST" for the last fourteen years; eighteen numbers missing. What offers? Greenhill, Chemist, Hayward's Heath, Sussex.

**DENTAL.**

DENTAL Chair, iron, plush upholstered; adjustable back and foot-rest; head-rest with hand-rest; excellent condition; £5 15s. Set (7) Forceps, plated, and "Universal" elevator, in roll case; almost new condition; cost 57s. (pre-war), 35s. "Dens," 49 Chippenham Road, W. 9.

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FOR sale, 40 lb. finest Block Juice at 2s. per lb. Apply Atkins, Chemist, Halifax Road, Todmorden.

THEOBROM. Oil; twelve pounds in 2-oz. cakes; in whole or part. What offers? Apply 57/10, Office of this Paper.

WHAT offers? Gall, Liquid Paraffin; 1 lb. Pot. Brom. Efferv.; 2 oz. Santonin; 1½ oz. Zinc Valerian; 150 Guaiac Carb. Tabs. gr. 5. Apply 44/40, Office of this Paper.

2 LB. Aniline Dyes, Mauve, Crimson, Green, Red, Cardinal, Brown; ½ oz. Trional Zn. Valer Exalgin Thiozol; 1 oz. Citrophene, Analgen, Diuretin, Butyl. Offers wanted. Adams, Chemist, Branksome, Dorset.

3 OZ. Santonin, 5s.; 32 boxes (2 tablets) Jameson's Complexion Soap; 1 tube 20 Peristaltin Tablets; 25 Borayval Tablets; 25 grams Acid. Trichloracetum Cryst. (Merck); 2 Bynol; 8 Tablets Citarin; 15 bottles Iodoform Gauze, 3 x 5 size; 100 gram Peguin; 9 bottles Phytin Liq., 7s.; 4 Cox's Massogran; 9 Kufek Food; 44 Infantina Food, 2s. size. E. Matthews, Medical Hall, Royston, Herts.

**OPTICAL AND PHOTOGRAPHIC.**

ABOUT two gross Photographio Plates; overstocked. Evans, Chemist, Margate.

**SHARES.**

FOR sale, Camwal Shares; two Ordinary and one pound Preference Shares. What offers? A. T. Girdler, 439 New Cross Road, London, S.E. 14.

**MISCELLANEOUS.**

¾ CWT. Scotch Beeswax. What offers? Cumming, Stonehaven. 5,000 Pill or Bottle Tubes; stout white cardboard; length 5", diameter 1¼"; price to clear, 75s. 1,000. Central Paper Co., 12 Johnson's Court, E.C. 4.

FOR sale, 3 gross 1s. 6d. Kill Lice Belts; 7s. 6d. per dozen, post paid; any quantity; cash with order. Loughlin, Chemist, 262 Moss Lane East, Moss Side, Manchester.

**WANTED.**

WANTED, Rodagen, powder or tablets. State price, Innes, Chemist, Elgin.

EIKONOGEN; state quantity and price. Hinchcliffes. Photographers, Leicester.

SACCHARIN wanted. Quantity, strength, and price to Lloyd, 323 Coventry Road, Birmingham.

V.P.K., Nos. 1 and 2 Brownie Films wanted; any quantity; good price given. Ashfield, Chemist, Rhyl.

ABSORBENT Wool, Lint, Bandages wanted in fair quantities. Offers to 112/20, Office of this paper.

WINDOW Shelves, Standard Bars, and Brackets. Apply T. Andrews, 126 Stephendale Road, Fulham.

WANTED, several hundred X 100 oz. empty Quinine Tins in good condition. H. E. Stevenson & Co., 122 Great Suffolk Street, S.E. 1.

TINS required for Boot Polish, Ointments, Metal Paste, etc. Samples and prices to Fortune & Co., "Brytenup" Polish Works, Preston.

KODAK Ensign or Lumiere Roll Films wanted; 15% off retail price given. State quantity, sizes, and dates, C.O.D., Neill, Chemist, Colwyn Bay.

WANTED, large Wedgwood Mortar, about 20 inches. Also Scales to weigh 28 lb.; purchase or hire. Apply 60/35. Office of this Paper.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

THERMOMETERS, clinical 50 second preferably, wanted, with or without cases. State price. Harkness, Beaumont & Co., Wholesale Druggists, Junction Bridge, Edinburgh.